# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 B4_1.4MHz_EIRP

### 1.1.1 Test Result

| Band: 4 / Bandwidth: 1.4MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 1710.7 | 1 | 0 | 22.80 | -4.00 | 18.80 | <=30 | Pass |
| | | | 2 | 22.57 | -4.00 | 18.57 | <=30 | Pass |
| | | | 5 | 22.30 | -4.00 | 18.30 | <=30 | Pass |
| | | 3 | 0 | 22.41 | -4.00 | 18.41 | <=30 | Pass |
| | | | 2 | 22.66 | -4.00 | 18.66 | <=30 | Pass |
| | | | 3 | 22.53 | -4.00 | 18.53 | <=30 | Pass |
| | | 6 | 0 | 21.29 | -4.00 | 17.29 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 22.07 | -4.00 | 18.07 | <=30 | Pass |
| | | | 2 | 21.94 | -4.00 | 17.94 | <=30 | Pass |
| | | | 5 | 21.94 | -4.00 | 17.94 | <=30 | Pass |
| | | 3 | 0 | 21.95 | -4.00 | 17.95 | <=30 | Pass |
| | | | 2 | 22.33 | -4.00 | 18.33 | <=30 | Pass |
| | | | 3 | 21.90 | -4.00 | 17.90 | <=30 | Pass |
| | | 6 | 0 | 20.94 | -4.00 | 16.94 | <=30 | Pass |
| | 1754.3 | 1 | 0 | 21.95 | -4.00 | 17.95 | <=30 | Pass |
| | | | 2 | 22.00 | -4.00 | 18.00 | <=30 | Pass |
| | | | 5 | 21.80 | -4.00 | 17.80 | <=30 | Pass |
| | | 3 | 0 | 21.84 | -4.00 | 17.84 | <=30 | Pass |
| | | | 2 | 21.87 | -4.00 | 17.87 | <=30 | Pass |
| | | | 3 | 21.81 | -4.00 | 17.81 | <=30 | Pass |
| | | 6 | 0 | 20.78 | -4.00 | 16.78 | <=30 | Pass |
| 16QAM | 1710.7 | 1 | 0 | 21.04 | -4.00 | 17.04 | <=30 | Pass |
| | | | 2 | 21.86 | -4.00 | 17.86 | <=30 | Pass |
| | | | 5 | 21.83 | -4.00 | 17.83 | <=30 | Pass |
| | | 3 | 0 | 21.46 | -4.00 | 17.46 | <=30 | Pass |
| | | | 2 | 21.47 | -4.00 | 17.47 | <=30 | Pass |
| | | | 3 | 21.45 | -4.00 | 17.45 | <=30 | Pass |
| | | 6 | 0 | 20.26 | -4.00 | 16.26 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 20.83 | -4.00 | 16.83 | <=30 | Pass |
| | | | 2 | 20.93 | -4.00 | 16.93 | <=30 | Pass |
| | | | 5 | 20.97 | -4.00 | 16.97 | <=30 | Pass |
| | | 3 | 0 | 21.03 | -4.00 | 17.03 | <=30 | Pass |
| | | | 2 | 21.03 | -4.00 | 17.03 | <=30 | Pass |
| | | | 3 | 21.32 | -4.00 | 17.32 | <=30 | Pass |
| | | 6 | 0 | 19.85 | -4.00 | 15.85 | <=30 | Pass |
| | 1754.3 | 1 | 0 | 20.48 | -4.00 | 16.48 | <=30 | Pass |
| | | | 2 | 20.41 | -4.00 | 16.41 | <=30 | Pass |
| | | | 5 | 20.59 | -4.00 | 16.59 | <=30 | Pass |
| | | 3 | 0 | 20.80 | -4.00 | 16.80 | <=30 | Pass |
| | | | 2 | 20.91 | -4.00 | 16.91 | <=30 | Pass |
| | | | 3 | 20.80 | -4.00 | 16.80 | <=30 | Pass |
| | | 6 | 0 | 19.77 | -4.00 | 15.77 | <=30 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

## 1.2 B4_3MHz_EIRP

### 1.2.1 Test Result

| Band: 4 / Bandwidth: 3MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 1711.5 | 1 | 0 | 22.43 | -4.00 | 18.43 | <=30 | Pass |
| | | | 7 | 22.58 | -4.00 | 18.58 | <=30 | Pass |
| | | | 14 | 22.35 | -4.00 | 18.35 | <=30 | Pass |
| | | 8 | 0 | 21.22 | -4.00 | 17.22 | <=30 | Pass |
| | | | 4 | 21.26 | -4.00 | 17.26 | <=30 | Pass |
| | | | 7 | 21.18 | -4.00 | 17.18 | <=30 | Pass |
| | | 15 | 0 | 21.18 | -4.00 | 17.18 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 22.19 | -4.00 | 18.19 | <=30 | Pass |
| | | | 7 | 22.26 | -4.00 | 18.26 | <=30 | Pass |
| | | | 14 | 22.40 | -4.00 | 18.40 | <=30 | Pass |
| | | 8 | 0 | 21.05 | -4.00 | 17.05 | <=30 | Pass |
| | | | 4 | 21.20 | -4.00 | 17.20 | <=30 | Pass |
| | | | 7 | 21.20 | -4.00 | 17.20 | <=30 | Pass |
| | | 15 | 0 | 21.14 | -4.00 | 17.14 | <=30 | Pass |
| | 1753.5 | 1 | 0 | 21.61 | -4.00 | 17.61 | <=30 | Pass |
| | | | 7 | 21.80 | -4.00 | 17.80 | <=30 | Pass |
| | | | 14 | 21.66 | -4.00 | 17.66 | <=30 | Pass |
| | | 8 | 0 | 20.68 | -4.00 | 16.68 | <=30 | Pass |
| | | | 4 | 20.69 | -4.00 | 16.69 | <=30 | Pass |
| | | | 7 | 20.66 | -4.00 | 16.66 | <=30 | Pass |
| | | 15 | 0 | 20.65 | -4.00 | 16.65 | <=30 | Pass |
| 16QAM | 1711.5 | 1 | 0 | 21.08 | -4.00 | 17.08 | <=30 | Pass |
| | | | 7 | 21.68 | -4.00 | 17.68 | <=30 | Pass |
| | | | 14 | 21.38 | -4.00 | 17.38 | <=30 | Pass |
| | | 8 | 0 | 20.10 | -4.00 | 16.10 | <=30 | Pass |
| | | | 4 | 20.14 | -4.00 | 16.14 | <=30 | Pass |
| | | | 7 | 20.35 | -4.00 | 16.35 | <=30 | Pass |
| | | 15 | 0 | 20.40 | -4.00 | 16.40 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 21.57 | -4.00 | 17.57 | <=30 | Pass |
| | | | 7 | 21.54 | -4.00 | 17.54 | <=30 | Pass |
| | | | 14 | 22.02 | -4.00 | 18.02 | <=30 | Pass |
| | | 8 | 0 | 20.22 | -4.00 | 16.22 | <=30 | Pass |
| | | | 4 | 20.29 | -4.00 | 16.29 | <=30 | Pass |
| | | | 7 | 20.29 | -4.00 | 16.29 | <=30 | Pass |
| | | 15 | 0 | 20.10 | -4.00 | 16.10 | <=30 | Pass |
| | 1753.5 | 1 | 0 | 20.64 | -4.00 | 16.64 | <=30 | Pass |
| | | | 7 | 20.59 | -4.00 | 16.59 | <=30 | Pass |
| | | | 14 | 20.53 | -4.00 | 16.53 | <=30 | Pass |
| | | 8 | 0 | 19.68 | -4.00 | 15.68 | <=30 | Pass |
| | | | 4 | 19.79 | -4.00 | 15.79 | <=30 | Pass |
| | | | 7 | 19.64 | -4.00 | 15.64 | <=30 | Pass |
| | | 15 | 0 | 19.66 | -4.00 | 15.66 | <=30 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

## 1.3 B4_5MHz_EIRP

### 1.3.1 Test Result

| Band: 4 / Bandwidth: 5MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 1712.5 | 1 | 0 | 22.57 | -4.00 | 18.57 | <=30 | Pass |
| | | | 13 | 22.46 | -4.00 | 18.46 | <=30 | Pass |
| | | | 24 | 22.33 | -4.00 | 18.33 | <=30 | Pass |
| | | 12 | 0 | 21.35 | -4.00 | 17.35 | <=30 | Pass |
| | | | 6 | 21.30 | -4.00 | 17.30 | <=30 | Pass |
| | | | 13 | 21.19 | -4.00 | 17.19 | <=30 | Pass |
| | | 25 | 0 | 21.27 | -4.00 | 17.27 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 21.80 | -4.00 | 17.80 | <=30 | Pass |
| | | | 13 | 21.99 | -4.00 | 17.99 | <=30 | Pass |
| | | | 24 | 22.20 | -4.00 | 18.20 | <=30 | Pass |
| | | 12 | 0 | 20.95 | -4.00 | 16.95 | <=30 | Pass |
| | | | 6 | 21.07 | -4.00 | 17.07 | <=30 | Pass |
| | | | 13 | 20.95 | -4.00 | 16.95 | <=30 | Pass |
| | | 25 | 0 | 20.90 | -4.00 | 16.90 | <=30 | Pass |
| | 1752.5 | 1 | 0 | 21.58 | -4.00 | 17.58 | <=30 | Pass |
| | | | 13 | 21.60 | -4.00 | 17.60 | <=30 | Pass |
| | | | 24 | 21.65 | -4.00 | 17.65 | <=30 | Pass |
| | | 12 | 0 | 20.73 | -4.00 | 16.73 | <=30 | Pass |
| | | | 6 | 20.68 | -4.00 | 16.68 | <=30 | Pass |
| | | | 13 | 20.60 | -4.00 | 16.60 | <=30 | Pass |
| | | 25 | 0 | 20.79 | -4.00 | 16.79 | <=30 | Pass |
| 16QAM | 1712.5 | 1 | 0 | 20.81 | -4.00 | 16.81 | <=30 | Pass |
| | | | 13 | 21.13 | -4.00 | 17.13 | <=30 | Pass |
| | | | 24 | 20.98 | -4.00 | 16.98 | <=30 | Pass |
| | | 12 | 0 | 20.26 | -4.00 | 16.26 | <=30 | Pass |
| | | | 6 | 20.24 | -4.00 | 16.24 | <=30 | Pass |
| | | | 13 | 20.20 | -4.00 | 16.20 | <=30 | Pass |
| | | 25 | 0 | 20.39 | -4.00 | 16.39 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 20.73 | -4.00 | 16.73 | <=30 | Pass |
| | | | 13 | 20.95 | -4.00 | 16.95 | <=30 | Pass |
| | | | 24 | 21.43 | -4.00 | 17.43 | <=30 | Pass |
| | | 12 | 0 | 19.76 | -4.00 | 15.76 | <=30 | Pass |
| | | | 6 | 20.16 | -4.00 | 16.16 | <=30 | Pass |
| | | | 13 | 20.07 | -4.00 | 16.07 | <=30 | Pass |
| | | 25 | 0 | 19.84 | -4.00 | 15.84 | <=30 | Pass |
| | 1752.5 | 1 | 0 | 20.12 | -4.00 | 16.12 | <=30 | Pass |
| | | | 13 | 20.27 | -4.00 | 16.27 | <=30 | Pass |
| | | | 24 | 20.31 | -4.00 | 16.31 | <=30 | Pass |
| | | 12 | 0 | 19.73 | -4.00 | 15.73 | <=30 | Pass |
| | | | 6 | 19.52 | -4.00 | 15.52 | <=30 | Pass |
| | | | 13 | 19.45 | -4.00 | 15.45 | <=30 | Pass |
| | | 25 | 0 | 19.55 | -4.00 | 15.55 | <=30 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

## 1.4 B4_10MHz_EIRP

### 1.4.1 Test Result

| Band: 4 / Bandwidth: 10MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 1715 | 1 | 0 | 22.08 | -4.00 | 18.08 | <=30 | Pass |
| | | | 25 | 22.47 | -4.00 | 18.47 | <=30 | Pass |
| | | | 49 | 21.84 | -4.00 | 17.84 | <=30 | Pass |
| | | 25 | 0 | 21.21 | -4.00 | 17.21 | <=30 | Pass |
| | | | 13 | 21.11 | -4.00 | 17.11 | <=30 | Pass |
| | | | 25 | 20.99 | -4.00 | 16.99 | <=30 | Pass |
| | | 50 | 0 | 21.16 | -4.00 | 17.16 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 22.16 | -4.00 | 18.16 | <=30 | Pass |
| | | | 25 | 22.48 | -4.00 | 18.48 | <=30 | Pass |
| | | | 49 | 21.90 | -4.00 | 17.90 | <=30 | Pass |
| | | 25 | 0 | 20.87 | -4.00 | 16.87 | <=30 | Pass |
| | | | 13 | 21.02 | -4.00 | 17.02 | <=30 | Pass |
| | | | 25 | 20.94 | -4.00 | 16.94 | <=30 | Pass |
| | | 50 | 0 | 20.98 | -4.00 | 16.98 | <=30 | Pass |
| | 1750 | 1 | 0 | 21.91 | -4.00 | 17.91 | <=30 | Pass |
| | | | 25 | 21.83 | -4.00 | 17.83 | <=30 | Pass |
| | | | 49 | 21.79 | -4.00 | 17.79 | <=30 | Pass |
| | | 25 | 0 | 20.90 | -4.00 | 16.90 | <=30 | Pass |
| | | | 13 | 20.81 | -4.00 | 16.81 | <=30 | Pass |
| | | | 25 | 20.60 | -4.00 | 16.60 | <=30 | Pass |
| | | 50 | 0 | 20.84 | -4.00 | 16.84 | <=30 | Pass |
| 16QAM | 1715 | 1 | 0 | 21.01 | -4.00 | 17.01 | <=30 | Pass |
| | | | 25 | 21.59 | -4.00 | 17.59 | <=30 | Pass |
| | | | 49 | 20.41 | -4.00 | 16.41 | <=30 | Pass |
| | | 12 | 0 | 21.25 | -4.00 | 17.25 | <=30 | Pass |
| | | | 19 | 21.16 | -4.00 | 17.16 | <=30 | Pass |
| | | | 38 | 20.70 | -4.00 | 16.70 | <=30 | Pass |
| | | 27 | 0 | 20.39 | -4.00 | 16.39 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 20.75 | -4.00 | 16.75 | <=30 | Pass |
| | | | 25 | 21.68 | -4.00 | 17.68 | <=30 | Pass |
| | | | 49 | 20.80 | -4.00 | 16.80 | <=30 | Pass |
| | | 12 | 0 | 21.01 | -4.00 | 17.01 | <=30 | Pass |
| | | | 19 | 21.02 | -4.00 | 17.02 | <=30 | Pass |
| | | | 38 | 21.04 | -4.00 | 17.04 | <=30 | Pass |
| | | 27 | 0 | 19.94 | -4.00 | 15.94 | <=30 | Pass |
| | 1750 | 1 | 0 | 21.35 | -4.00 | 17.35 | <=30 | Pass |
| | | | 25 | 21.19 | -4.00 | 17.19 | <=30 | Pass |
| | | | 49 | 21.25 | -4.00 | 17.25 | <=30 | Pass |
| | | 12 | 0 | 20.78 | -4.00 | 16.78 | <=30 | Pass |
| | | | 19 | 20.80 | -4.00 | 16.80 | <=30 | Pass |
| | | | 38 | 20.46 | -4.00 | 16.46 | <=30 | Pass |
| | | 27 | 23 | 19.65 | -4.00 | 15.65 | <=30 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

## 1.5 B4_15MHz_EIRP

### 1.5.1 Test Result

| Band: 4 / Bandwidth: 15MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 1717.5 | 1 | 0 | 22.44 | -4.00 | 18.44 | <=30 | Pass |
| | | | 38 | 22.15 | -4.00 | 18.15 | <=30 | Pass |
| | | | 74 | 21.92 | -4.00 | 17.92 | <=30 | Pass |
| | | 36 | 0 | 21.09 | -4.00 | 17.09 | <=30 | Pass |
| | | | 18 | 21.42 | -4.00 | 17.42 | <=30 | Pass |
| | | | 39 | 21.02 | -4.00 | 17.02 | <=30 | Pass |
| | | 75 | 0 | 21.21 | -4.00 | 17.21 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 22.19 | -4.00 | 18.19 | <=30 | Pass |
| | | | 38 | 22.24 | -4.00 | 18.24 | <=30 | Pass |
| | | | 74 | 22.17 | -4.00 | 18.17 | <=30 | Pass |
| | | 36 | 0 | 21.21 | -4.00 | 17.21 | <=30 | Pass |
| | | | 18 | 21.32 | -4.00 | 17.32 | <=30 | Pass |
| | | | 39 | 21.30 | -4.00 | 17.30 | <=30 | Pass |
| | | 75 | 0 | 21.23 | -4.00 | 17.23 | <=30 | Pass |
| | 1747.5 | 1 | 0 | 22.23 | -4.00 | 18.23 | <=30 | Pass |
| | | | 38 | 22.23 | -4.00 | 18.23 | <=30 | Pass |
| | | | 74 | 21.83 | -4.00 | 17.83 | <=30 | Pass |
| | | 36 | 0 | 21.19 | -4.00 | 17.19 | <=30 | Pass |
| | | | 18 | 21.22 | -4.00 | 17.22 | <=30 | Pass |
| | | | 39 | 21.17 | -4.00 | 17.17 | <=30 | Pass |
| | | 75 | 0 | 21.16 | -4.00 | 17.16 | <=30 | Pass |
| 16QAM | 1717.5 | 1 | 0 | 21.41 | -4.00 | 17.41 | <=30 | Pass |
| | | | 38 | 21.10 | -4.00 | 17.10 | <=30 | Pass |
| | | | 74 | 20.21 | -4.00 | 16.21 | <=30 | Pass |
| | | 12 | 0 | 21.52 | -4.00 | 17.52 | <=30 | Pass |
| | | | 31 | 21.26 | -4.00 | 17.26 | <=30 | Pass |
| | | | 63 | 21.33 | -4.00 | 17.33 | <=30 | Pass |
| | | 27 | 0 | 20.74 | -4.00 | 16.74 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 21.39 | -4.00 | 17.39 | <=30 | Pass |
| | | | 38 | 21.34 | -4.00 | 17.34 | <=30 | Pass |
| | | | 74 | 21.36 | -4.00 | 17.36 | <=30 | Pass |
| | | 12 | 0 | 21.00 | -4.00 | 17.00 | <=30 | Pass |
| | | | 31 | 21.45 | -4.00 | 17.45 | <=30 | Pass |
| | | | 63 | 21.33 | -4.00 | 17.33 | <=30 | Pass |
| | | 27 | 0 | 20.13 | -4.00 | 16.13 | <=30 | Pass |
| | 1747.5 | 1 | 0 | 21.41 | -4.00 | 17.41 | <=30 | Pass |
| | | | 38 | 21.26 | -4.00 | 17.26 | <=30 | Pass |
| | | | 74 | 20.23 | -4.00 | 16.23 | <=30 | Pass |
| | | 12 | 0 | 21.37 | -4.00 | 17.37 | <=30 | Pass |
| | | | 31 | 21.18 | -4.00 | 17.18 | <=30 | Pass |
| | | | 63 | 20.88 | -4.00 | 16.88 | <=30 | Pass |
| | | 27 | 48 | 20.00 | -4.00 | 16.00 | <=30 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

## 1.6 B4_20MHz_EIRP

### 1.6.1 Test Result

| Band: 4 / Bandwidth: 20MHz / NTNV | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) | | Verdict |
| | | Size | Offset | | | Result | Limit | |
| QPSK | 1720 | 1 | 0 | 22.44 | -4.00 | 18.44 | <=30 | Pass |
| | | | 50 | 22.29 | -4.00 | 18.29 | <=30 | Pass |
| | | | 99 | 22.31 | -4.00 | 18.31 | <=30 | Pass |
| | | 50 | 0 | 21.64 | -4.00 | 17.64 | <=30 | Pass |
| | | | 25 | 21.34 | -4.00 | 17.34 | <=30 | Pass |
| | | | 50 | 21.26 | -4.00 | 17.26 | <=30 | Pass |
| | | 100 | 0 | 21.28 | -4.00 | 17.28 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 21.93 | -4.00 | 17.93 | <=30 | Pass |
| | | | 50 | 22.39 | -4.00 | 18.39 | <=30 | Pass |
| | | | 99 | 21.94 | -4.00 | 17.94 | <=30 | Pass |
| | | 50 | 0 | 21.00 | -4.00 | 17.00 | <=30 | Pass |
| | | | 25 | 21.29 | -4.00 | 17.29 | <=30 | Pass |
| | | | 50 | 21.38 | -4.00 | 17.38 | <=30 | Pass |
| | | 100 | 0 | 21.16 | -4.00 | 17.16 | <=30 | Pass |
| | 1745 | 1 | 0 | 22.16 | -4.00 | 18.16 | <=30 | Pass |
| | | | 50 | 22.34 | -4.00 | 18.34 | <=30 | Pass |
| | | | 99 | 22.08 | -4.00 | 18.08 | <=30 | Pass |
| | | 50 | 0 | 21.10 | -4.00 | 17.10 | <=30 | Pass |
| | | | 25 | 21.38 | -4.00 | 17.38 | <=30 | Pass |
| | | | 50 | 21.05 | -4.00 | 17.05 | <=30 | Pass |
| | | 100 | 0 | 21.13 | -4.00 | 17.13 | <=30 | Pass |
| 16QAM | 1720 | 1 | 0 | 22.10 | -4.00 | 18.10 | <=30 | Pass |
| | | | 50 | 21.81 | -4.00 | 17.81 | <=30 | Pass |
| | | | 99 | 21.94 | -4.00 | 17.94 | <=30 | Pass |
| | | 12 | 0 | 21.30 | -4.00 | 17.30 | <=30 | Pass |
| | | | 44 | 21.05 | -4.00 | 17.05 | <=30 | Pass |
| | | | 88 | 21.17 | -4.00 | 17.17 | <=30 | Pass |
| | | 27 | 0 | 20.49 | -4.00 | 16.49 | <=30 | Pass |
| | 1732.5 | 1 | 0 | 21.81 | -4.00 | 17.81 | <=30 | Pass |
| | | | 50 | 22.19 | -4.00 | 18.19 | <=30 | Pass |
| | | | 99 | 21.88 | -4.00 | 17.88 | <=30 | Pass |
| | | 12 | 0 | 20.76 | -4.00 | 16.76 | <=30 | Pass |
| | | | 44 | 21.24 | -4.00 | 17.24 | <=30 | Pass |
| | | | 88 | 21.09 | -4.00 | 17.09 | <=30 | Pass |
| | | 27 | 0 | 20.01 | -4.00 | 16.01 | <=30 | Pass |
| | 1745 | 1 | 0 | 22.02 | -4.00 | 18.02 | <=30 | Pass |
| | | | 50 | 22.08 | -4.00 | 18.08 | <=30 | Pass |
| | | | 99 | 21.86 | -4.00 | 17.86 | <=30 | Pass |
| | | 12 | 0 | 21.42 | -4.00 | 17.42 | <=30 | Pass |
| | | | 44 | 21.27 | -4.00 | 17.27 | <=30 | Pass |
| | | | 88 | 20.70 | -4.00 | 16.70 | <=30 | Pass |
| | | 27 | 73 | 19.98 | -4.00 | 15.98 | <=30 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain | | | | | | | | |

# 2. Frequency Stability

## 2.1 B4_1.4MHz

### 2.1.1 Test Result

| Band: 4 / Bandwidth: 1.4MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 1710.7 | 6 | 0 | 20 | 3.27 | 1.888 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 2.475 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 2.360 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 1.831 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.601 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 3.576 | 0.0021 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 1.159 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 1.431 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.286 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 1.588 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 2.861 | 0.0017 | -2.5 to 2.5 | Pass |
| | 1732.5 | 6 | 0 | 20 | 3.27 | 0.486 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.801 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.200 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.443 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.687 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.772 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.930 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.014 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 1.388 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.143 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.787 | 0.0005 | -2.5 to 2.5 | Pass |
| | 1754.3 | 6 | 0 | 20 | 3.27 | -2.117 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.861 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -2.818 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -3.018 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -2.346 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -3.090 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -3.505 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -2.317 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.287 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -2.446 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -4.721 | -0.0027 | -2.5 to 2.5 | Pass |
| 16QAM | 1710.7 | 6 | 0 | 20 | 3.27 | 1.917 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 4.191 | 0.0024 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 2.747 | 0.0016 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 3.133 | 0.0018 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 2.460 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 2.961 | 0.0017 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 2.217 | 0.0013 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 2.503 | 0.0015 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 3.376 | 0.0020 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 4.177 | 0.0024 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 2.589 | 0.0015 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1732.5 | 6 | 0 | 20 | 3.27 | 0.100 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 1.159 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.701 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.415 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.973 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.443 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.715 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.458 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.215 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.029 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.758 | -0.0004 | -2.5 to 2.5 | Pass |
| | 1754.3 | 6 | 0 | 20 | 3.27 | -3.262 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -4.263 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -3.233 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -4.134 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -3.147 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -3.448 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -3.290 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -2.532 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -2.875 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -2.489 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -4.020 | -0.0023 | -2.5 to 2.5 | Pass |

## 2.2 B4_3MHz

### 2.2.1 Test Result

| Band: 4 / Bandwidth: 3MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 1711.5 | 15 | 0 | 20 | 3.27 | 0.601 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.844 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 1.001 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 1.760 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 1.302 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.873 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 1.202 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.587 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 1.073 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.701 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 1.516 | 0.0009 | -2.5 to 2.5 | Pass |
| | 1732.5 | 15 | 0 | 20 | 3.27 | 0.429 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 2.131 | 0.0012 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 1.259 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.672 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.930 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.315 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.715 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.257 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.172 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.057 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 1.416 | 0.0008 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1753.5 | 15 | 0 | 20 | 3.27 | -0.086 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.086 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.157 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.014 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 1.173 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 1.173 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.587 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.558 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 1.588 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 1.674 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.958 | 0.0005 | -2.5 to 2.5 | Pass |
| 16QAM | 1711.5 | 15 | 0 | 20 | 3.27 | 1.001 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.830 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.086 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.358 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 1.574 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.329 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 1.159 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.858 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 1.402 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.243 | 0.0001 | -2.5 to 2.5 | Pass |
| | 1732.5 | 15 | 0 | 20 | 3.27 | 0.715 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 1.788 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.801 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.086 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.715 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 2.203 | 0.0013 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 1.216 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.014 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 1.760 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 1.030 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.143 | -0.0001 | -2.5 to 2.5 | Pass |
| | 1753.5 | 15 | 0 | 20 | 3.27 | 0.200 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.272 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.472 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.429 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.958 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 1.817 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 1.674 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 1.230 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.172 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.286 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.715 | -0.0004 | -2.5 to 2.5 | Pass |

## 2.3 B4_5MHz

### 2.3.1 Test Result

| Band: 4 / Bandwidth: 5MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 1712.5 | 25 | 0 | 20 | 3.27 | 2.217 | 0.0013 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 1.917 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 2.117 | 0.0012 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 2.275 | 0.0013 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 2.375 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 1.416 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 1.459 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 2.074 | 0.0012 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 2.389 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.286 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 2.131 | 0.0012 | -2.5 to 2.5 | Pass |
| | 1732.5 | 25 | 0 | 20 | 3.27 | 1.688 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 1.502 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 1.488 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.086 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 1.459 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.243 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 2.718 | 0.0016 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.257 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 1.645 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 1.345 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 1.302 | 0.0008 | -2.5 to 2.5 | Pass |
| | 1752.5 | 25 | 0 | 20 | 3.27 | -2.618 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -3.161 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.731 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.817 | -0.0010 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -2.446 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.645 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -1.631 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -2.732 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -1.359 | -0.0008 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -1.059 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.373 | -0.0008 | -2.5 to 2.5 | Pass |
| 16QAM | 1712.5 | 25 | 0 | 20 | 3.27 | 2.604 | 0.0015 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.730 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 1.788 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 2.360 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 2.460 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 2.818 | 0.0016 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 2.575 | 0.0015 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 2.446 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 1.874 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 1.101 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 1.860 | 0.0011 | -2.5 to 2.5 | Pass |
| | 1732.5 | 25 | 0 | 20 | 3.27 | -0.486 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 1.230 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 1.087 | 0.0006 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | -30 | 3.85 | 1.087 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 1.488 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 1.459 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 1.616 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 1.516 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.343 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.472 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.730 | 0.0004 | -2.5 to 2.5 | Pass |
| | 1752.5 | 25 | 0 | 20 | 3.27 | -2.360 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -2.961 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.073 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.144 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -1.602 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -2.174 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -2.074 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -2.704 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -2.518 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -3.247 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -1.259 | -0.0007 | -2.5 to 2.5 | Pass |

## 2.4 B4_10MHz

### 2.4.1 Test Result

| Band: 4 / Bandwidth: 10MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 1715 | 50 | 0 | 20 | 3.27 | -3.262 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -3.018 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.559 | -0.0009 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -1.817 | -0.0011 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -3.462 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -3.133 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -2.403 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -2.418 | -0.0014 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -2.604 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -2.589 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -2.775 | -0.0016 | -2.5 to 2.5 | Pass |
| | 1732.5 | 50 | 0 | 20 | 3.27 | -0.272 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.730 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.286 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.486 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.014 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.358 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.687 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.173 | -0.0007 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.515 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.157 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.243 | -0.0001 | -2.5 to 2.5 | Pass |
| | 1750 | 50 | 0 | 20 | 3.27 | 0.873 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 1.574 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 1.030 | 0.0006 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | -30 | 3.85 | 1.230 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 1.774 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.615 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.930 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 1.588 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 2.031 | 0.0012 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 2.789 | 0.0016 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 1.030 | 0.0006 | -2.5 to 2.5 | Pass |
| 16QAM | 1715 | 27 | 0 | 20 | 3.27 | -3.905 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -4.048 | -0.0024 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -2.489 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -3.948 | -0.0023 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -2.604 | -0.0015 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -3.848 | -0.0022 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -3.533 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -3.319 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -2.933 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -2.961 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -4.249 | -0.0025 | -2.5 to 2.5 | Pass |
| | 1732.5 | 27 | 0 | 20 | 3.27 | -0.429 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.958 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -1.016 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 1.659 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 1.788 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.129 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.300 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.887 | -0.0005 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.186 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.157 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.687 | -0.0004 | -2.5 to 2.5 | Pass |
| | 1750 | 27 | 23 | 20 | 3.27 | 1.559 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.458 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.443 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 1.674 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.744 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 1.645 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 1.802 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 1.259 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 1.431 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 1.516 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 2.332 | 0.0013 | -2.5 to 2.5 | Pass |

## 2.5 B4_15MHz

### 2.5.1 Test Result

| Band: 4 / Bandwidth: 15MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 1717.5 | 75 | 0 | 20 | 3.27 | -0.629 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.815 | 0.0005 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.772 | 0.0004 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | -30 | 3.85 | -0.057 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.072 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -1.030 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.157 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -1.001 | -0.0006 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.129 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.257 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.587 | -0.0003 | -2.5 to 2.5 | Pass |
| | 1732.5 | 75 | 0 | 20 | 3.27 | 0.043 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.529 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.086 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.515 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.286 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.043 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.730 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.057 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.029 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.629 | -0.0004 | -2.5 to 2.5 | Pass |
| | 1747.5 | 75 | 0 | 20 | 3.27 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.072 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.358 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.315 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.000 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.272 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.558 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.372 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.200 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.057 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.343 | -0.0002 | -2.5 to 2.5 | Pass |
| 16QAM | 1717.5 | 27 | 0 | 20 | 3.27 | -0.415 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.000 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.715 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.000 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.043 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.014 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.257 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.014 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.772 | -0.0004 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.300 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.200 | 0.0001 | -2.5 to 2.5 | Pass |
| | 1732.5 | 27 | 0 | 20 | 3.27 | -0.286 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.587 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 0.415 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -0.029 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.343 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -0.072 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.172 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.415 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.000 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.029 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.472 | -0.0003 | -2.5 to 2.5 | Pass |
| | 1747.5 | 27 | 48 | 20 | 3.27 | 0.200 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.615 | -0.0004 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | -30 | 3.85 | 0.515 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.415 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.443 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -0.086 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.229 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.558 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -0.458 | -0.0003 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 0.300 | 0.0002 | -2.5 to 2.5 | Pass |

## 2.6 B4_20MHz

### 2.6.1 Test Result

| Band: 4 / Bandwidth: 20MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | Size | Offset | | | | Result | Limit | |
| QPSK | 1720 | 100 | 0 | 20 | 3.27 | 1.531 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 1.044 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 1.831 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 1.345 | 0.0008 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 2.403 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 1.173 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 1.130 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.572 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 1.802 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.243 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 2.489 | 0.0014 | -2.5 to 2.5 | Pass |
| | 1732.5 | 100 | 0 | 20 | 3.27 | -0.329 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.086 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.057 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.443 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 0.172 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.272 | 0.0002 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 2.446 | 0.0014 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.429 | -0.0002 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 0.615 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.000 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.215 | -0.0001 | -2.5 to 2.5 | Pass |
| | 1745 | 100 | 0 | 20 | 3.27 | -2.918 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -3.061 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -2.947 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -3.519 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -3.319 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -3.719 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -3.204 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -3.119 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -2.060 | -0.0012 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -3.519 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -3.190 | -0.0018 | -2.5 to 2.5 | Pass |
| 16QAM | 1720 | 27 | 0 | 20 | 3.27 | 1.674 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 1.531 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | 1.588 | 0.0009 | -2.5 to 2.5 | Pass |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | -30 | 3.85 | 0.687 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | 1.130 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 1.488 | 0.0009 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 1.845 | 0.0011 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | 0.558 | 0.0003 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | 1.802 | 0.0010 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 1.044 | 0.0006 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | 1.616 | 0.0009 | -2.5 to 2.5 | Pass |
| | 1732.5 | 27 | 0 | 20 | 3.27 | -0.014 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | 0.730 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | 0.229 | 0.0001 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -0.086 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | 0.629 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | 0.057 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -0.086 | 0.0000 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -0.114 | -0.0001 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | 0.772 | 0.0004 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -0.029 | 0.0000 | -2.5 to 2.5 | Pass |
| | 1745 | 27 | 73 | 20 | 3.27 | -3.705 | -0.0021 | -2.5 to 2.5 | Pass |
| | | | | | 3.85 | -3.433 | -0.0020 | -2.5 to 2.5 | Pass |
| | | | | | 4.43 | -2.818 | -0.0016 | -2.5 to 2.5 | Pass |
| | | | | -30 | 3.85 | -3.347 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | -20 | 3.85 | -3.247 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | -10 | 3.85 | -3.347 | -0.0019 | -2.5 to 2.5 | Pass |
| | | | | 0 | 3.85 | -4.320 | -0.0025 | -2.5 to 2.5 | Pass |
| | | | | 10 | 3.85 | -2.918 | -0.0017 | -2.5 to 2.5 | Pass |
| | | | | 30 | 3.85 | -3.219 | -0.0018 | -2.5 to 2.5 | Pass |
| | | | | 40 | 3.85 | -2.289 | -0.0013 | -2.5 to 2.5 | Pass |
| | | | | 50 | 3.85 | -2.890 | -0.0017 | -2.5 to 2.5 | Pass |

# 3. Modulation Characteristics

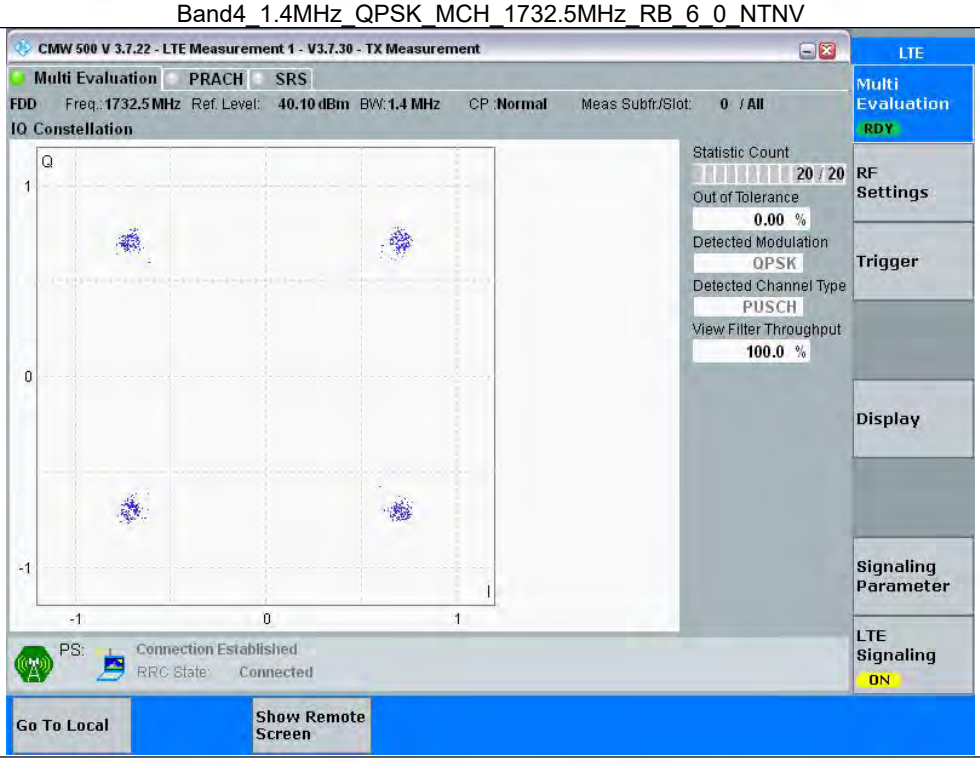
## 3.1 B4_1.4MHz

### 3.1.1 Test Result

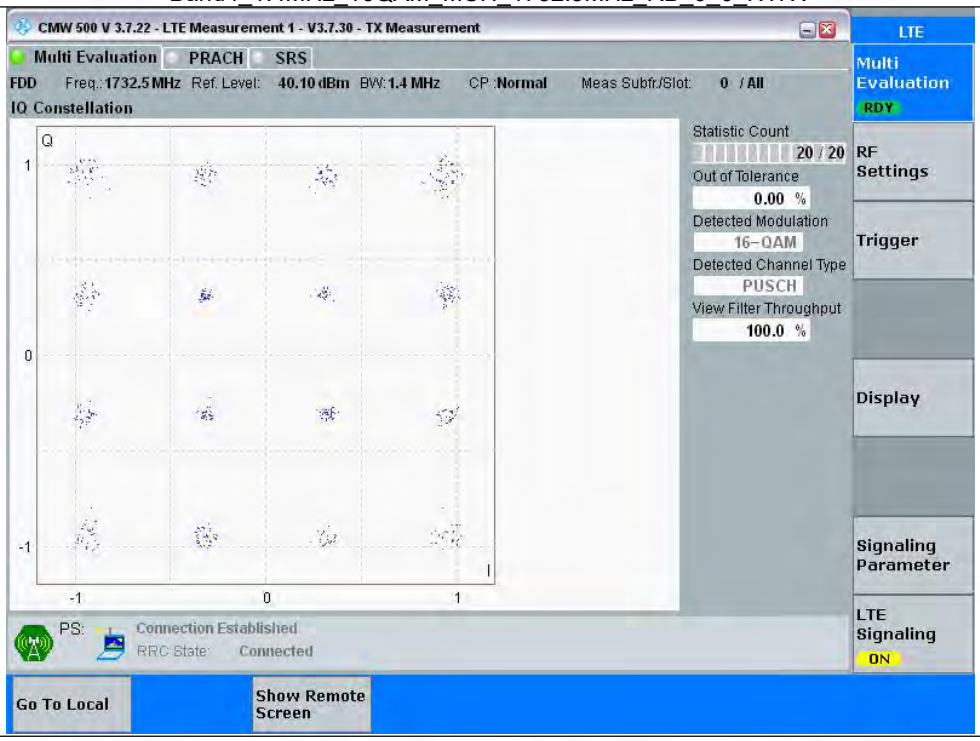
| Band: 4 / Bandwidth: 1.4MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1732.5 | 6 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1732.5 | 6 | 0 | Refer To Test Graph | | Pass |

### 3.1.2 Test Graph

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV




Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



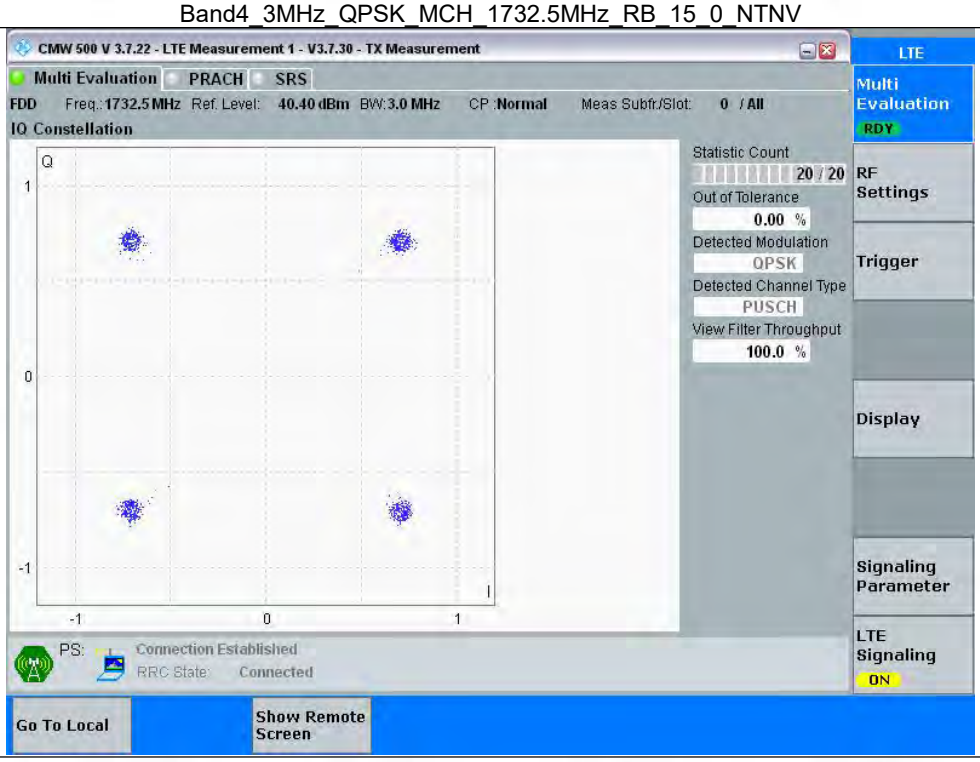
## 3.2 B4_3MHz

### 3.2.1 Test Result

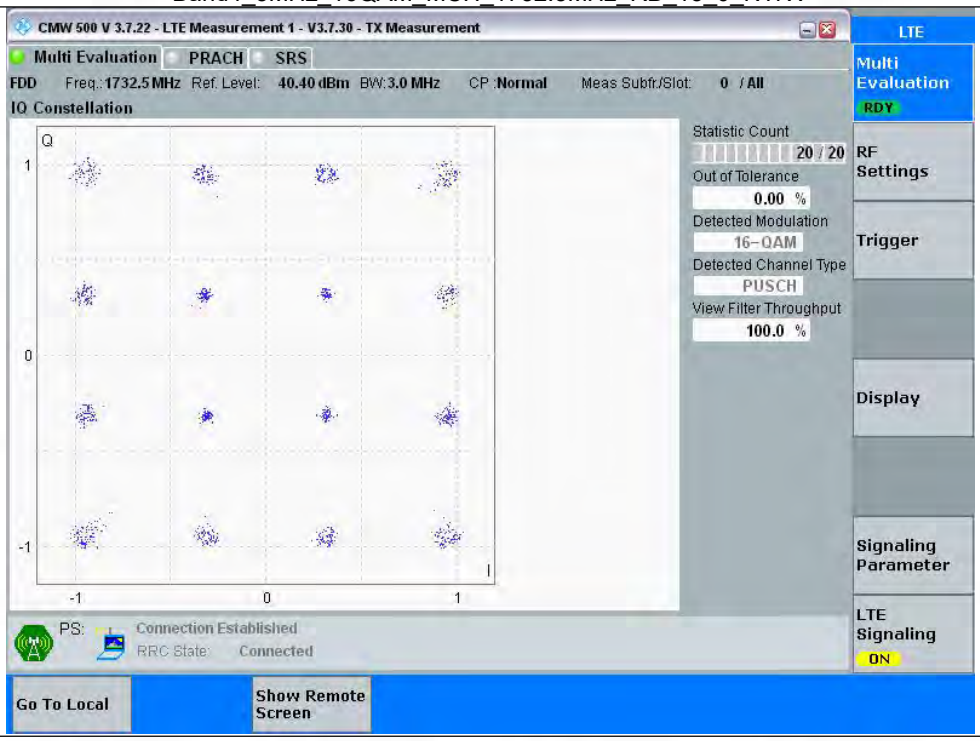
| Band: 4 / Bandwidth: 3MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1732.5 | 15 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1732.5 | 15 | 0 | Refer To Test Graph | | Pass |

### 3.2.2 Test Graph

Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV




Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



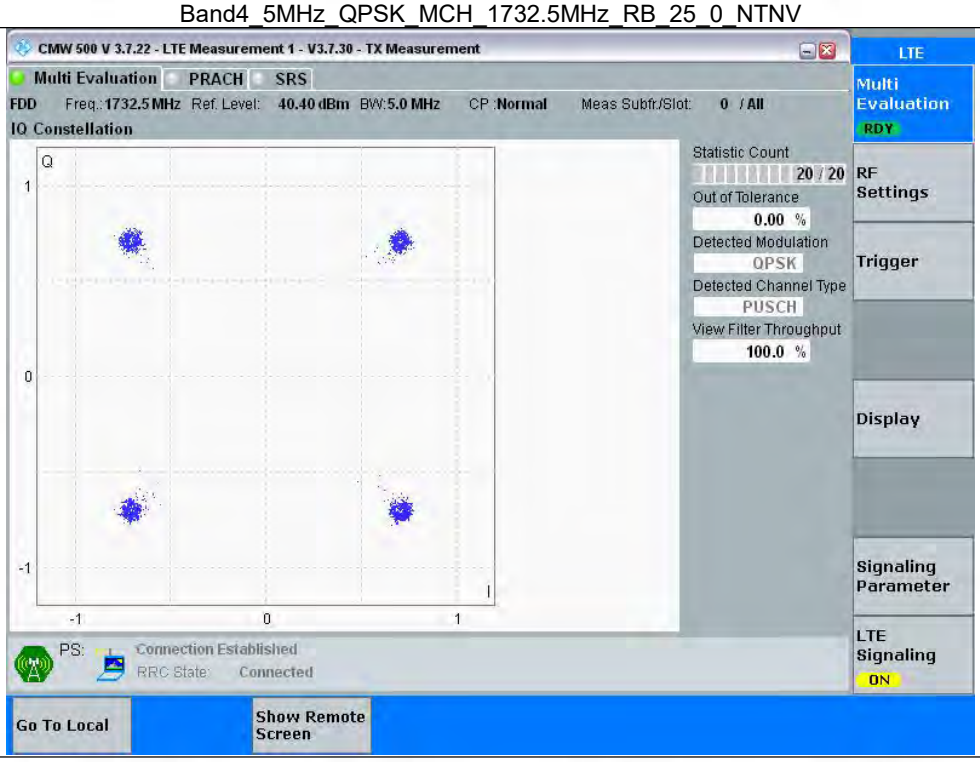
## 3.3 B4_5MHz

### 3.3.1 Test Result

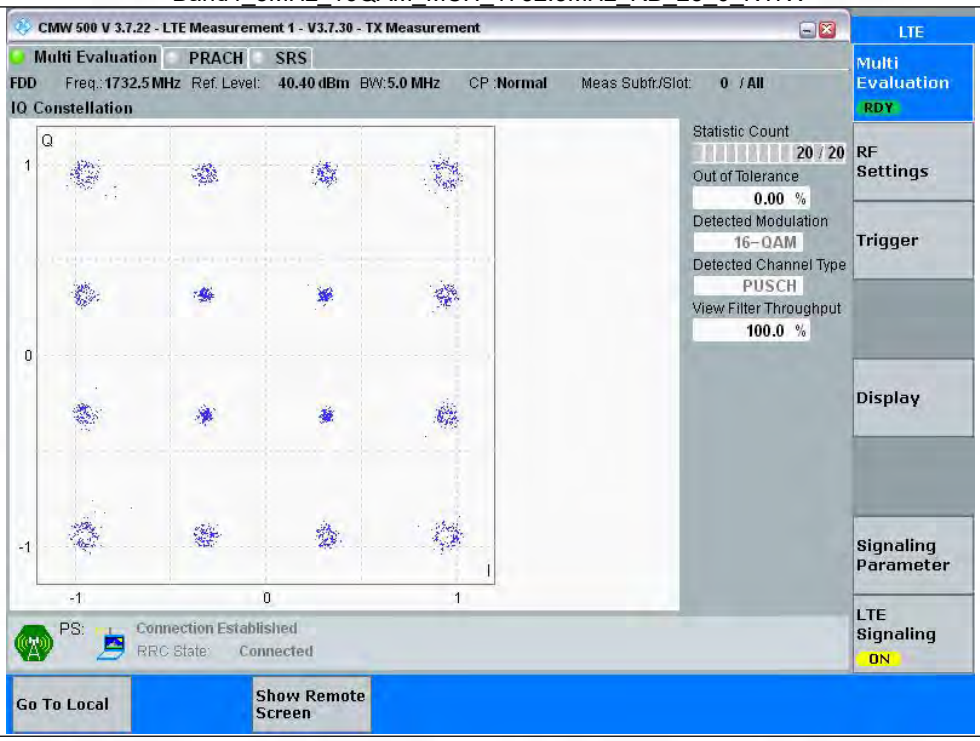
| Band: 4 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1732.5 | 25 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1732.5 | 25 | 0 | Refer To Test Graph | | Pass |

### 3.3.2 Test Graph

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV




Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



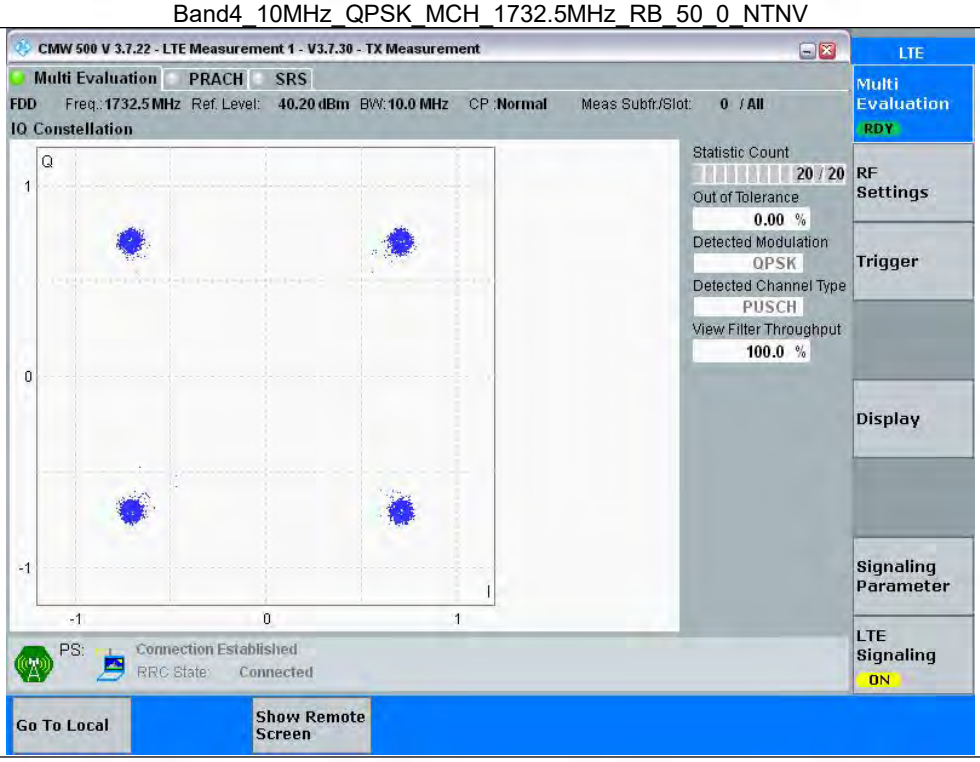
## 3.4 B4_10MHz

### 3.4.1 Test Result

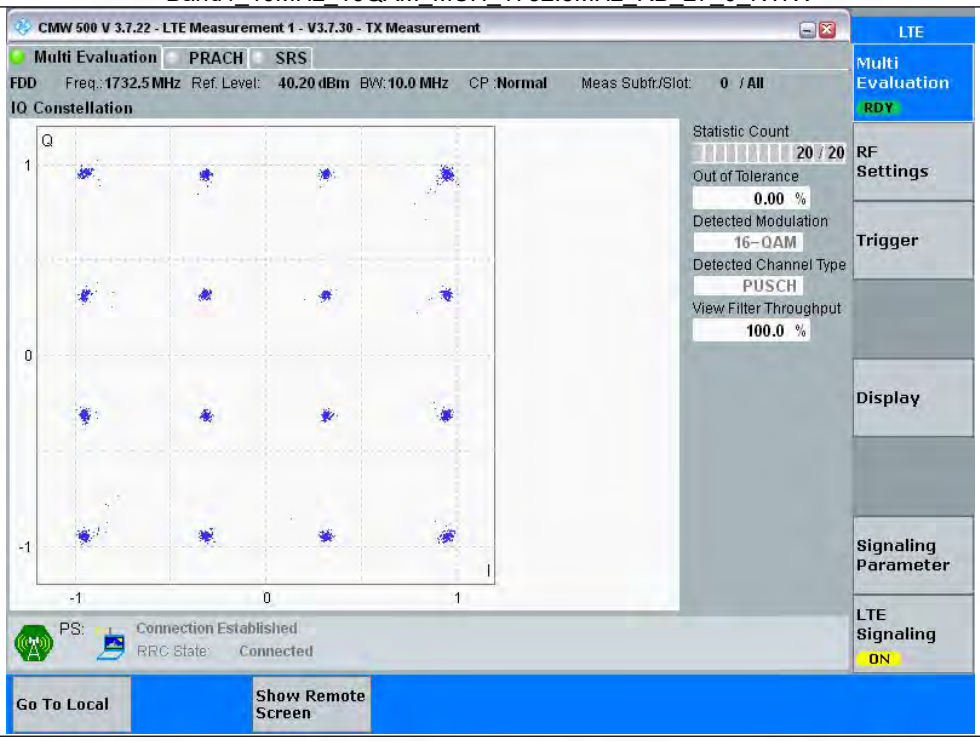
| Band: 4 / Bandwidth: 10MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1732.5 | 50 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1732.5 | 27 | 0 | Refer To Test Graph | | Pass |

### 3.4.2 Test Graph

Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV




Band4_10MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV



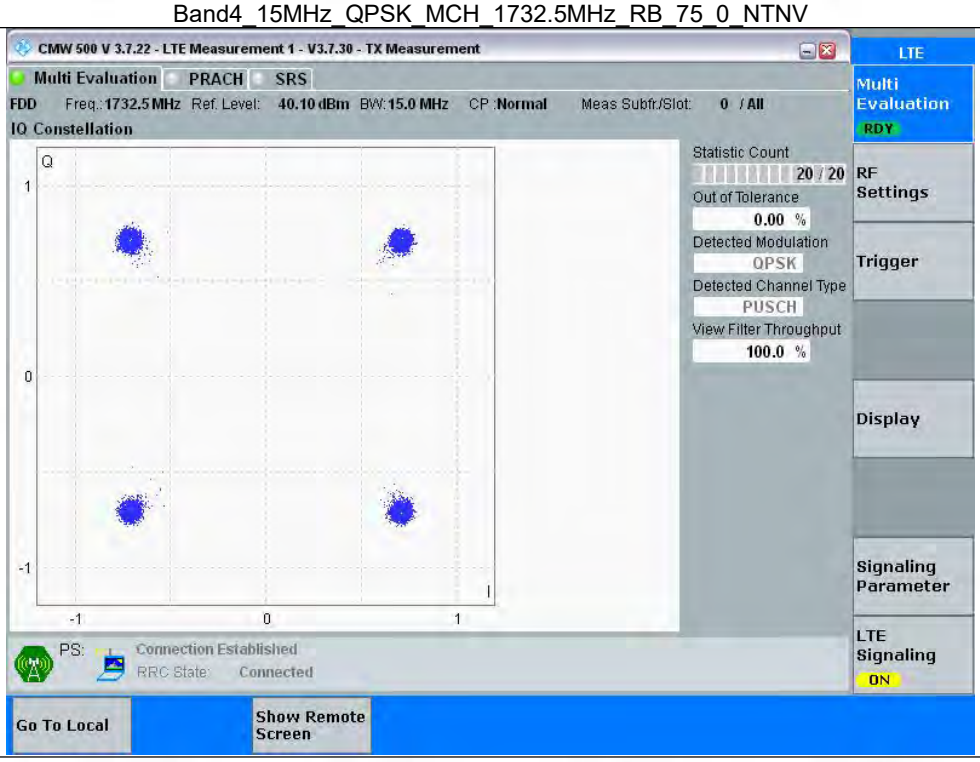
## 3.5 B4_15MHz

### 3.5.1 Test Result

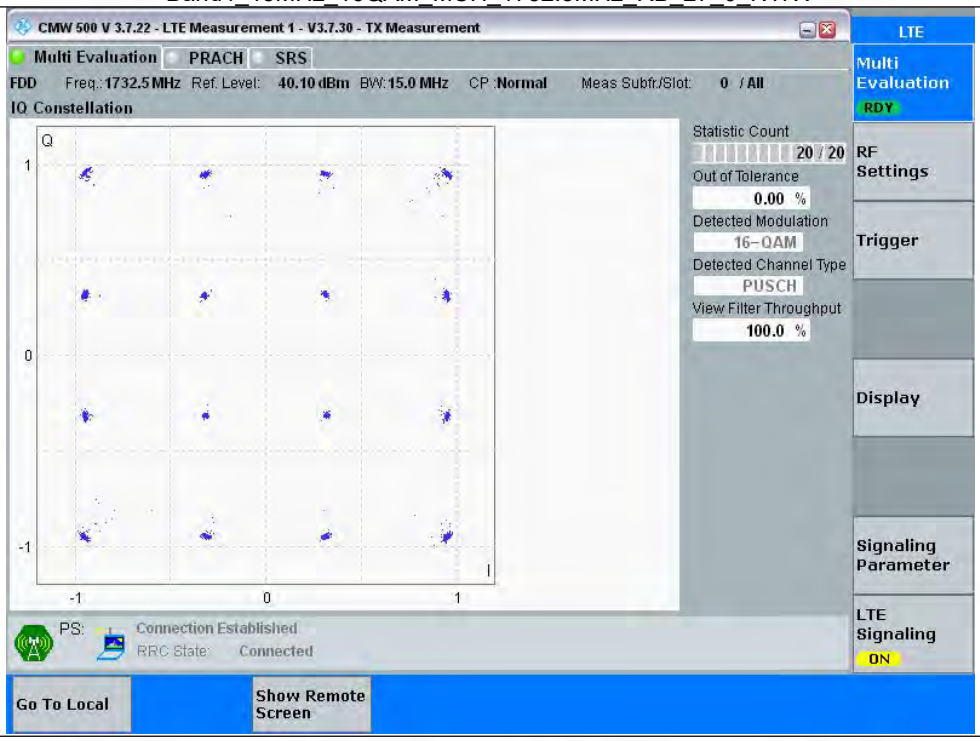
| Band: 4 / Bandwidth: 15MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1732.5 | 75 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1732.5 | 27 | 0 | Refer To Test Graph | | Pass |

### 3.5.2 Test Graph

Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV




Band4_15MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV



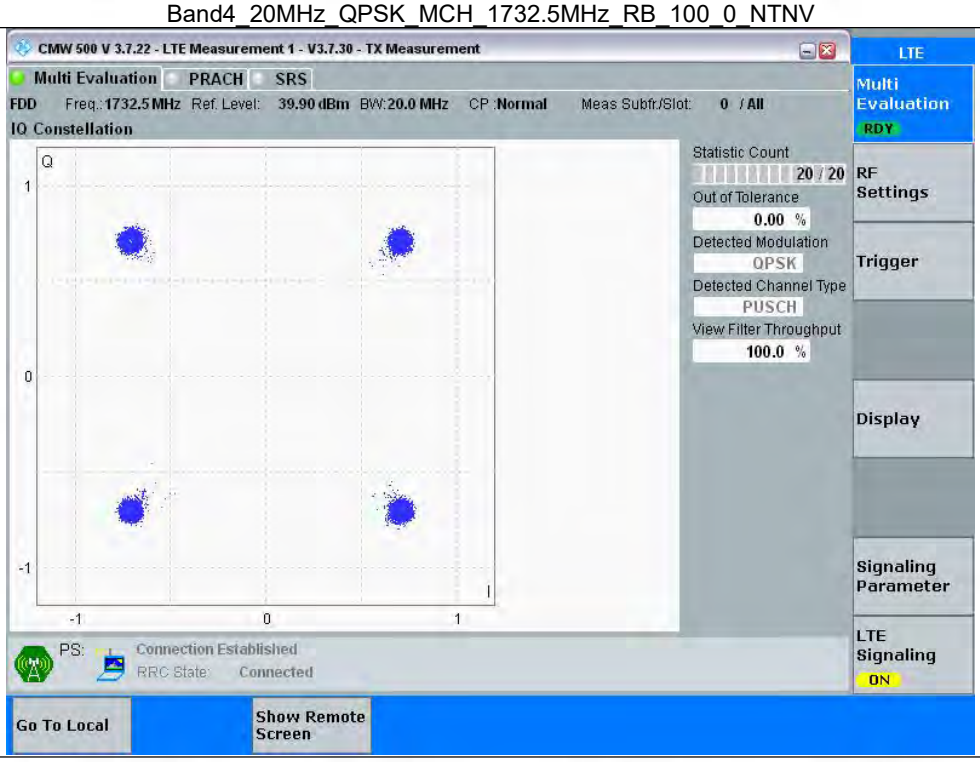
## 3.6 B4_20MHz

### 3.6.1 Test Result

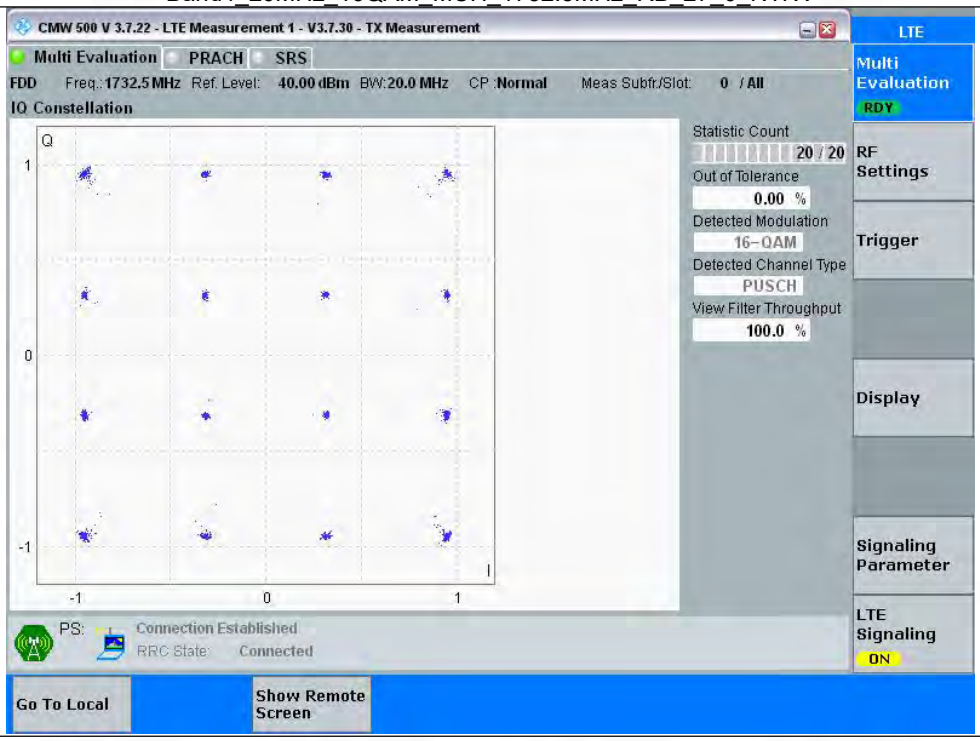
| Band: 4 / Bandwidth: 20MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Modulation Characteristics | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1732.5 | 100 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1732.5 | 27 | 0 | Refer To Test Graph | | Pass |

### 3.6.2 Test Graph

Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV




Band4_20MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV



# 4. 99% & 26dB Bandwidth

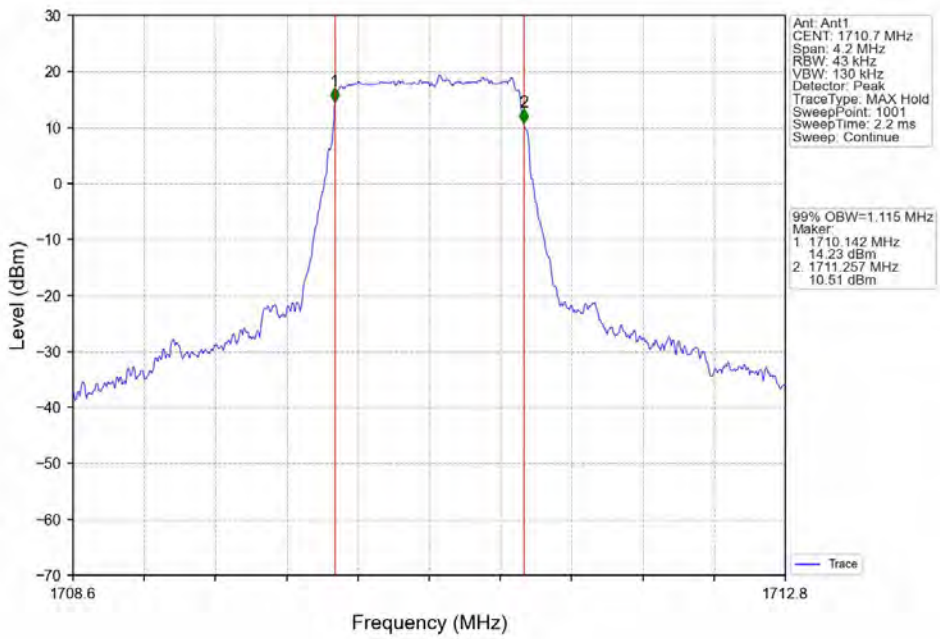
## 4.1 Band4_OBW

### 4.1.1 Test Result

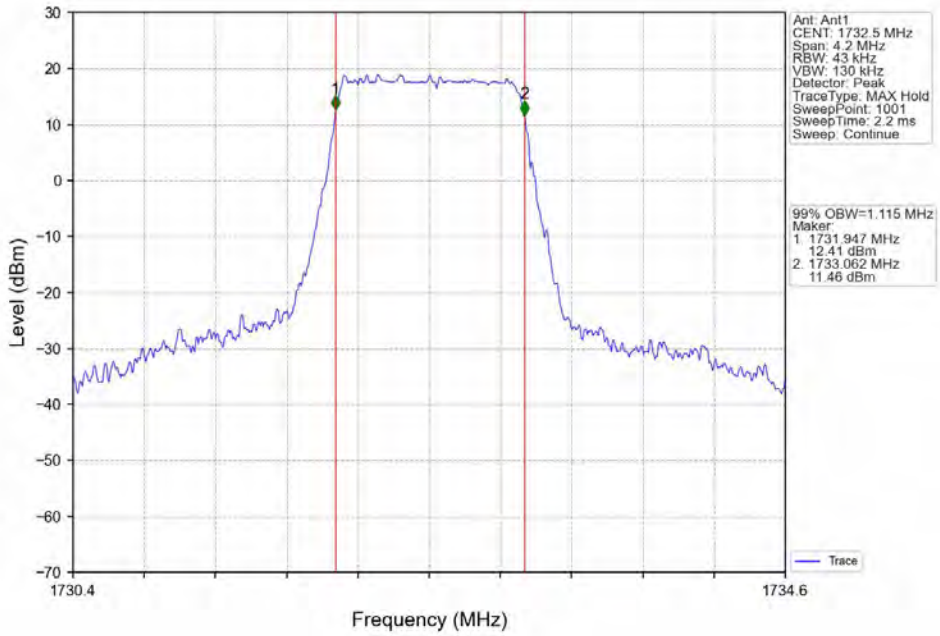
| Band: 4 / NTNV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 99% Occupied Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 1.4 | QPSK | 1710.7 | 6 | 0 | 1.115 | / | Pass |
| | | 1732.5 | 6 | 0 | 1.115 | / | Pass |
| | | 1754.3 | 6 | 0 | 1.114 | / | Pass |
| | 16QAM | 1710.7 | 6 | 0 | 1.110 | / | Pass |
| | | 1732.5 | 6 | 0 | 1.104 | / | Pass |
| | | 1754.3 | 6 | 0 | 1.121 | / | Pass |
| 3 | QPSK | 1711.5 | 15 | 0 | 2.746 | / | Pass |
| | | 1732.5 | 15 | 0 | 2.743 | / | Pass |
| | | 1753.5 | 15 | 0 | 2.750 | / | Pass |
| | 16QAM | 1711.5 | 15 | 0 | 2.739 | / | Pass |
| | | 1732.5 | 15 | 0 | 2.735 | / | Pass |
| | | 1753.5 | 15 | 0 | 2.744 | / | Pass |
| 5 | QPSK | 1712.5 | 25 | 0 | 4.547 | / | Pass |
| | | 1732.5 | 25 | 0 | 4.547 | / | Pass |
| | | 1752.5 | 25 | 0 | 4.555 | / | Pass |
| | 16QAM | 1712.5 | 25 | 0 | 4.558 | / | Pass |
| | | 1732.5 | 25 | 0 | 4.542 | / | Pass |
| | | 1752.5 | 25 | 0 | 4.531 | / | Pass |
| 10 | QPSK | 1715 | 50 | 0 | 9.054 | / | Pass |
| | | 1732.5 | 50 | 0 | 9.020 | / | Pass |
| | | 1750 | 50 | 0 | 9.037 | / | Pass |
| | 16QAM | 1715 | 27 | 0 | 5.124 | / | Pass |
| | | 1732.5 | 27 | 0 | 5.107 | / | Pass |
| | | 1750 | 27 | 23 | 5.100 | / | Pass |
| 15 | QPSK | 1717.5 | 75 | 0 | 13.523 | / | Pass |
| | | 1732.5 | 75 | 0 | 13.518 | / | Pass |
| | | 1747.5 | 75 | 0 | 13.518 | / | Pass |
| | 16QAM | 1717.5 | 27 | 0 | 5.642 | / | Pass |
| | | 1732.5 | 27 | 0 | 5.345 | / | Pass |
| | | 1747.5 | 27 | 48 | 5.245 | / | Pass |
| 20 | QPSK | 1720 | 100 | 0 | 17.928 | / | Pass |
| | | 1732.5 | 100 | 0 | 18.012 | / | Pass |
| | | 1745 | 100 | 0 | 17.969 | / | Pass |
| | 16QAM | 1720 | 27 | 0 | 5.800 | / | Pass |
| | | 1732.5 | 27 | 0 | 5.566 | / | Pass |
| | | 1745 | 27 | 73 | 5.502 | / | Pass |

### 4.1.2 Test Graph

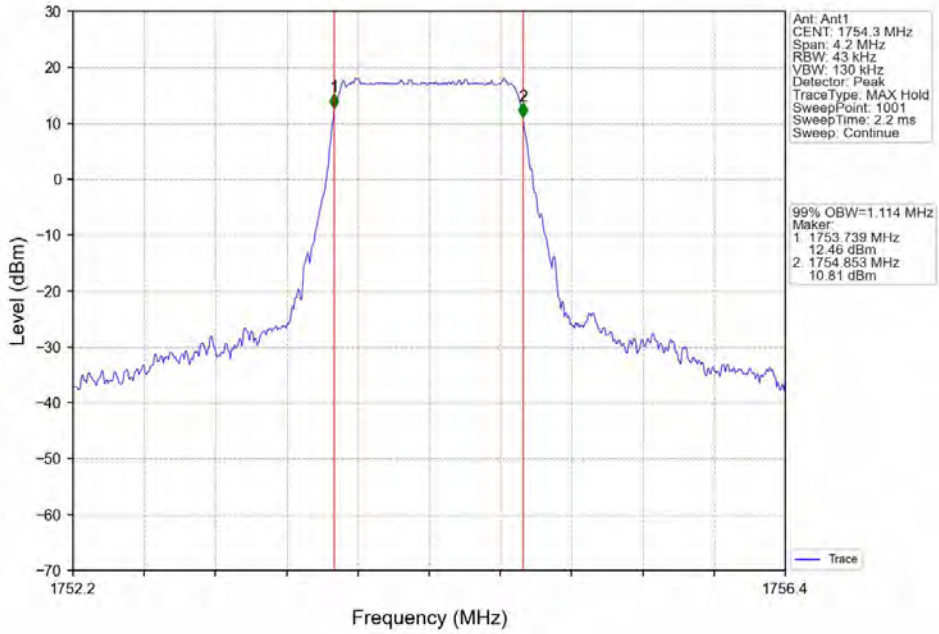
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



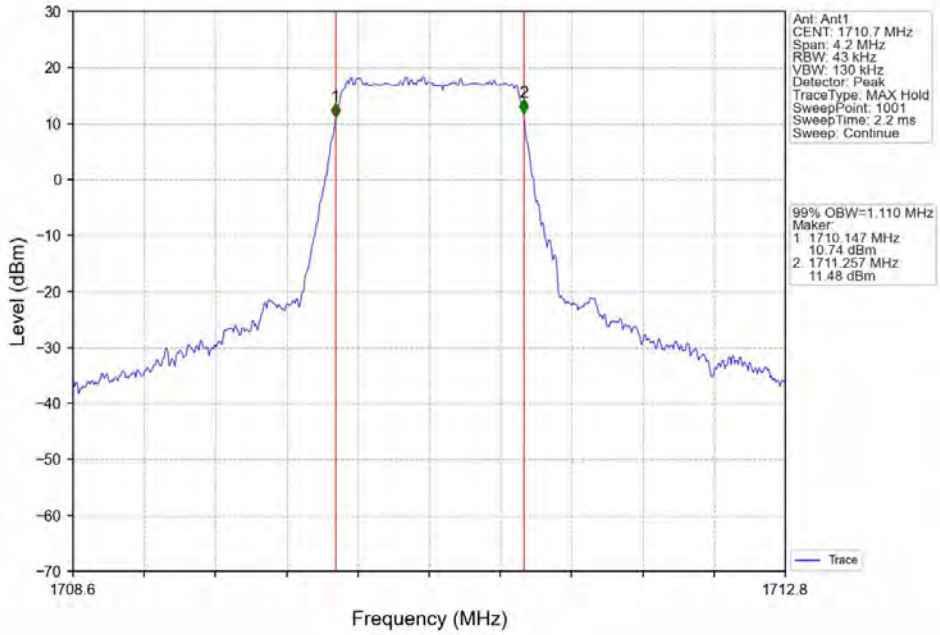

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



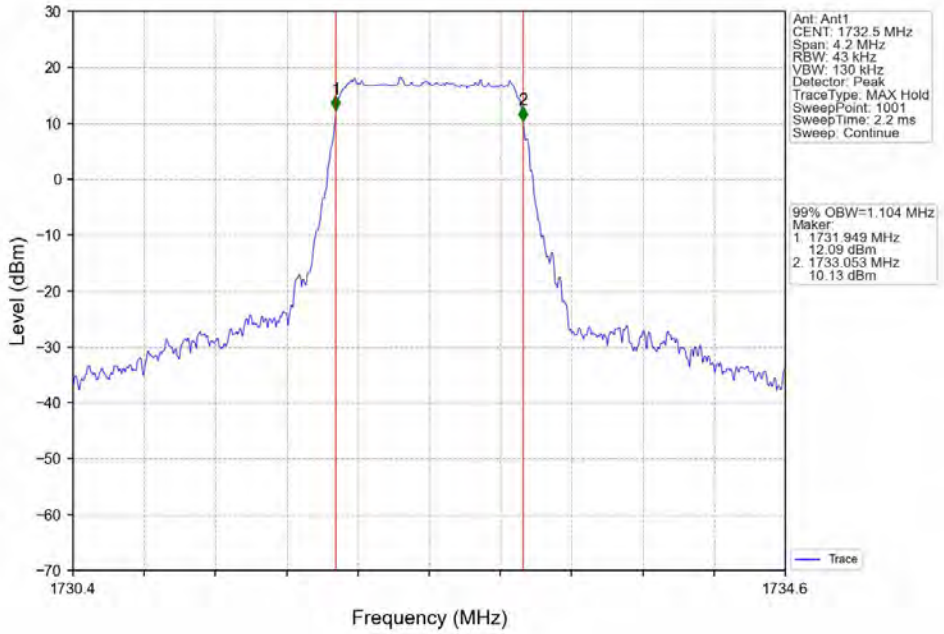
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



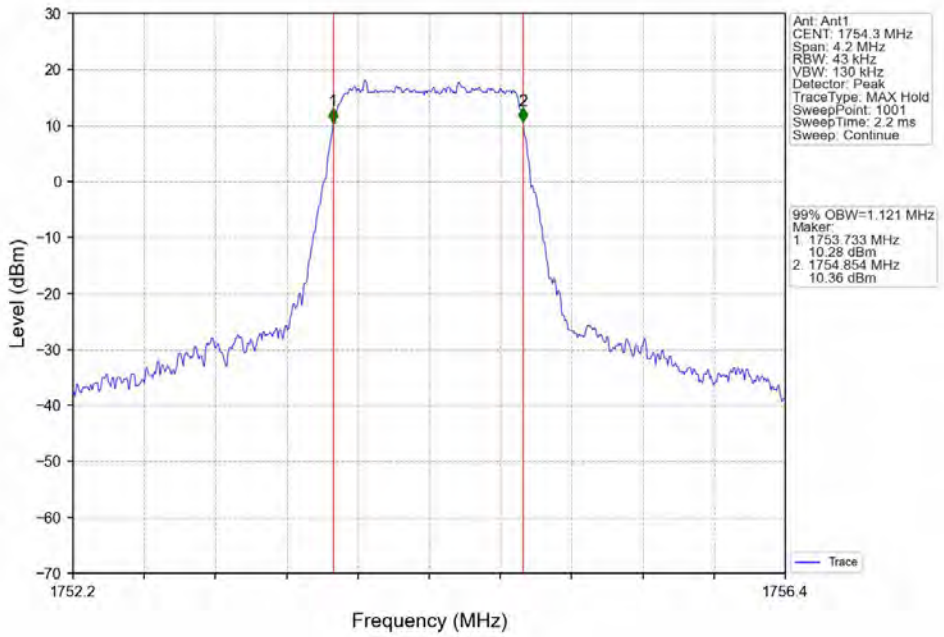

Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



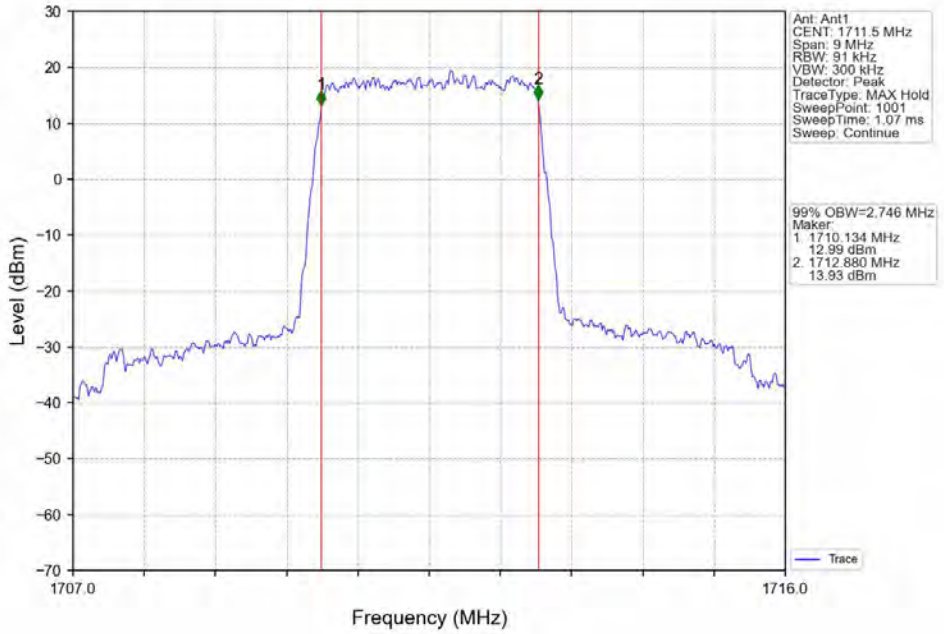
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



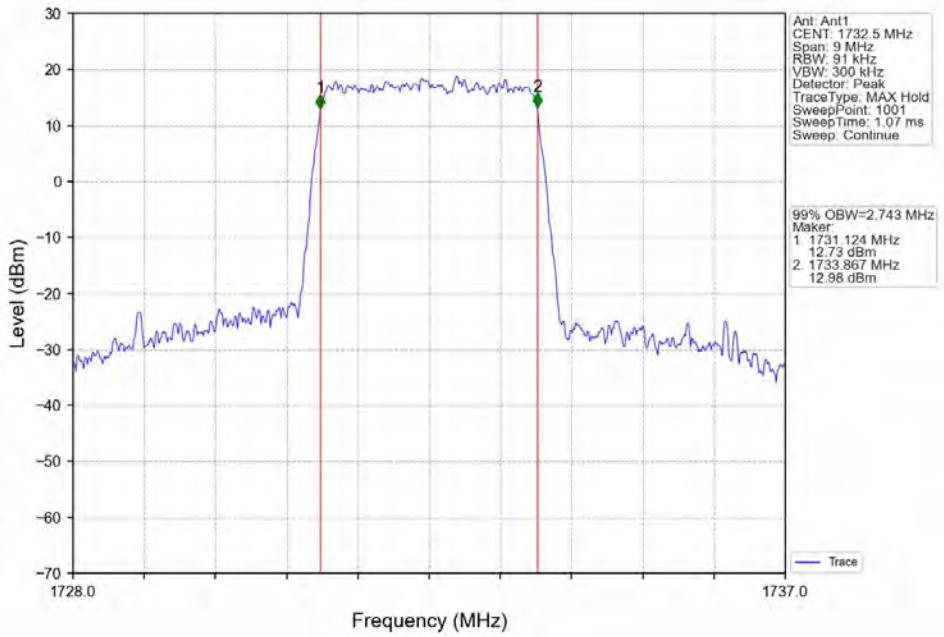

Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



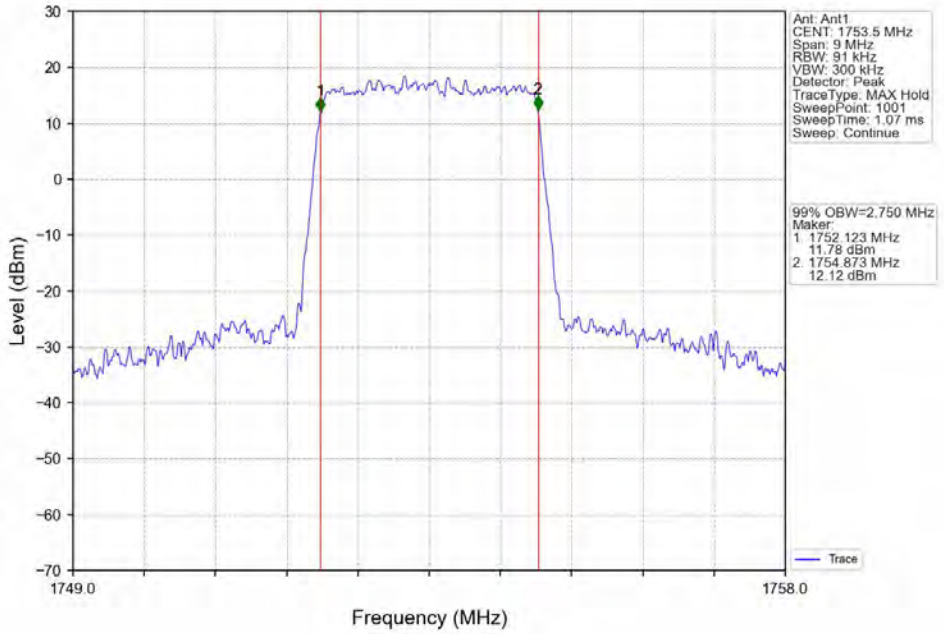
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



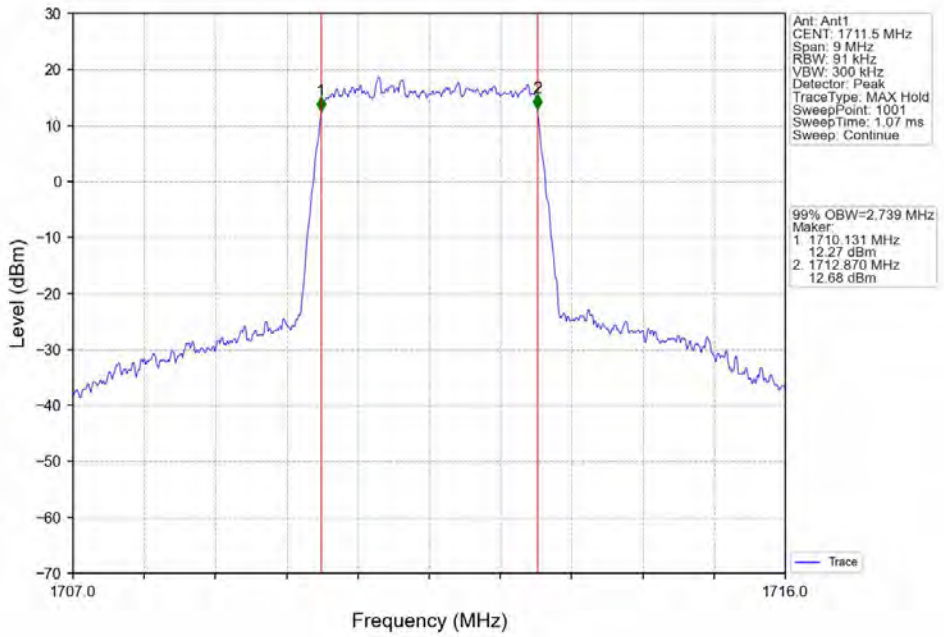

Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



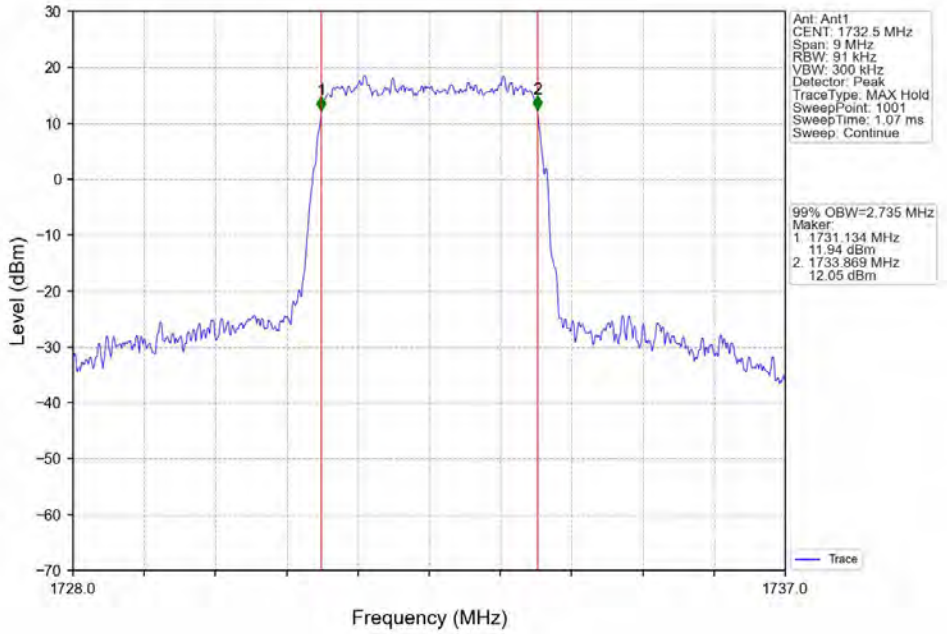
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



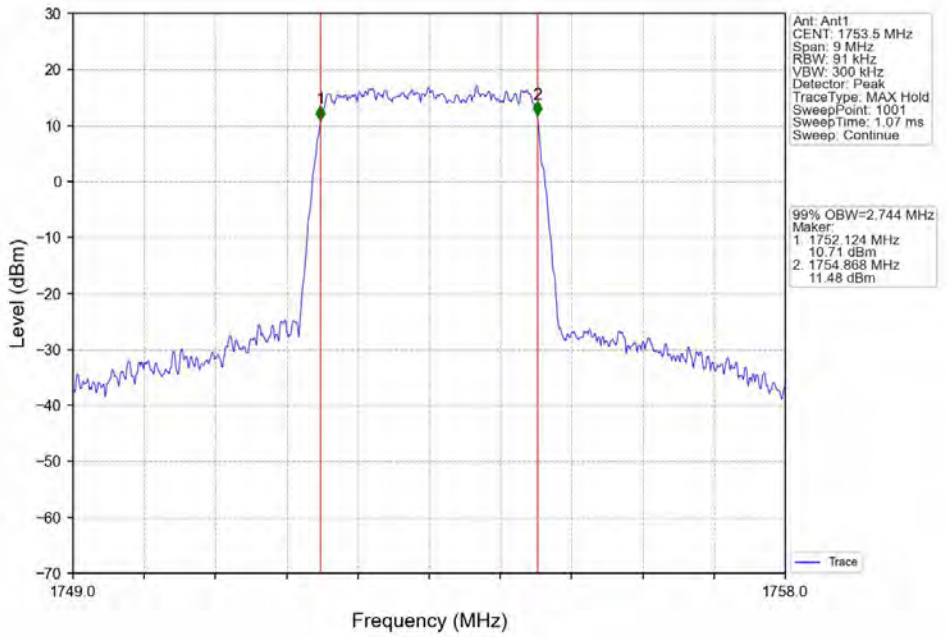

Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



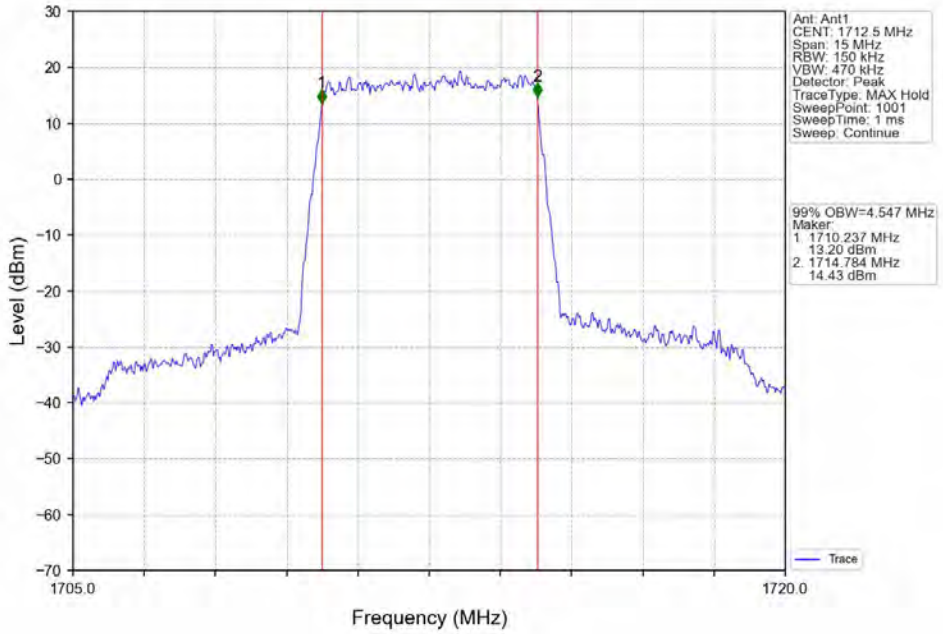
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



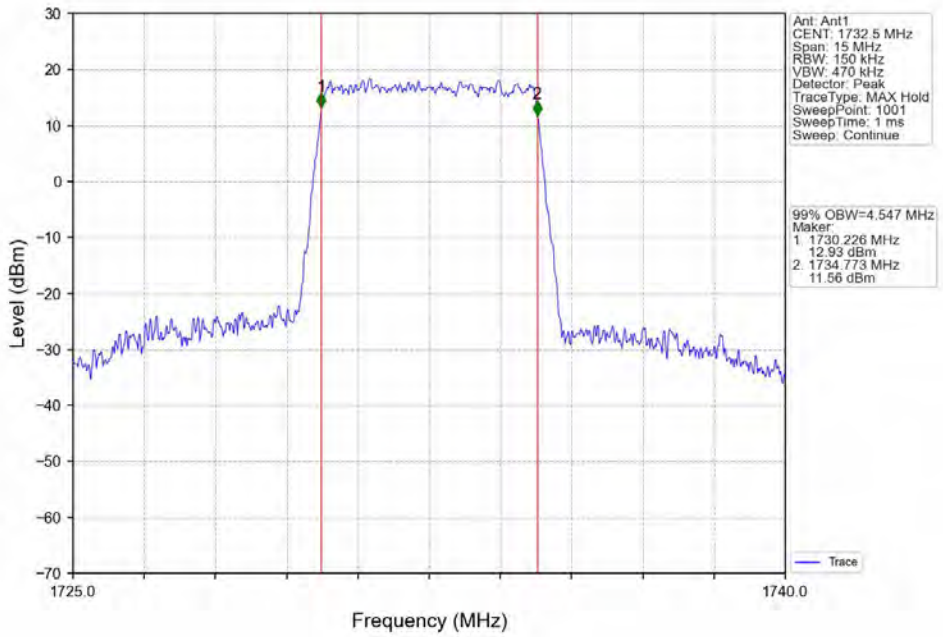

Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



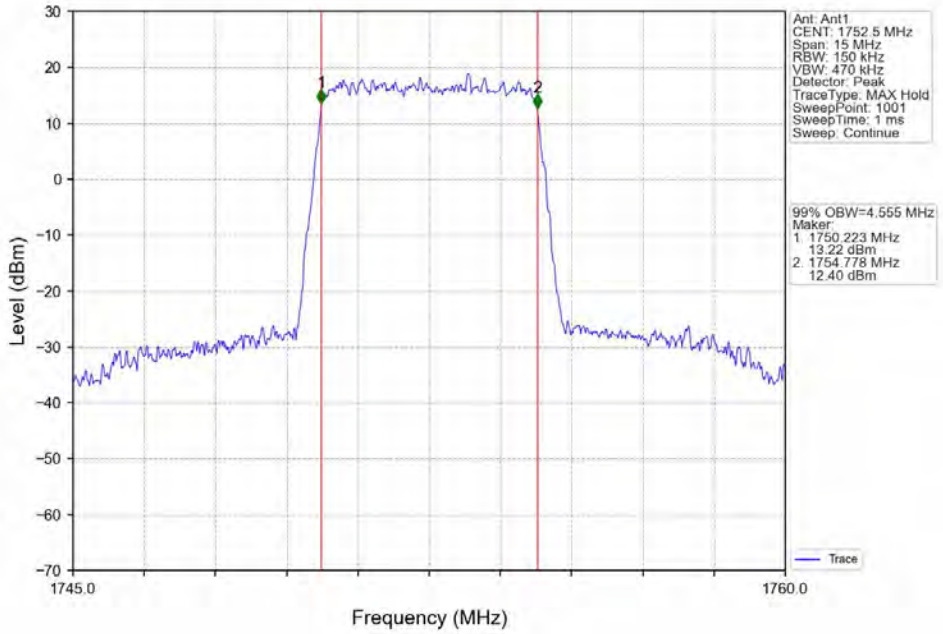
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



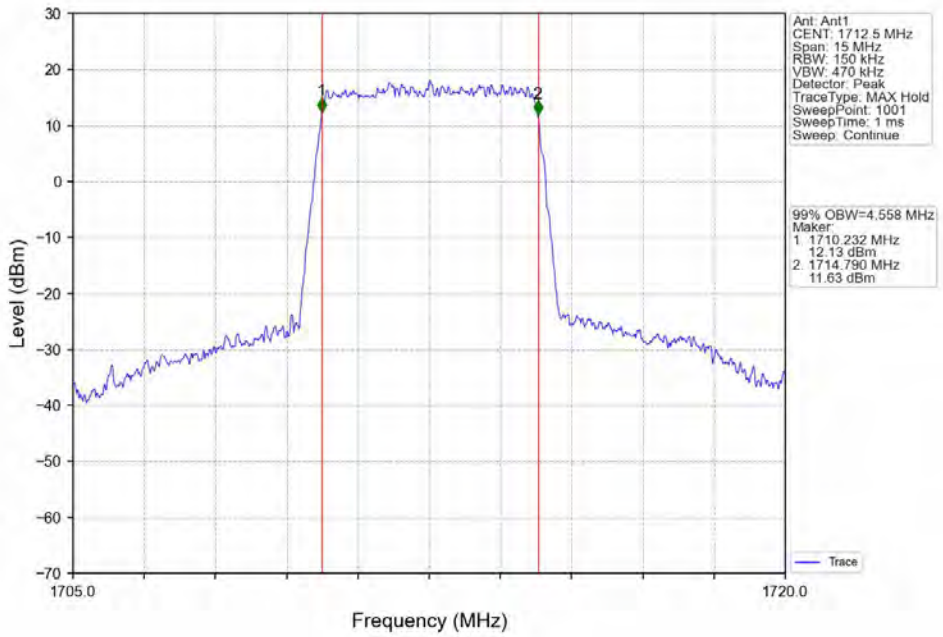

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



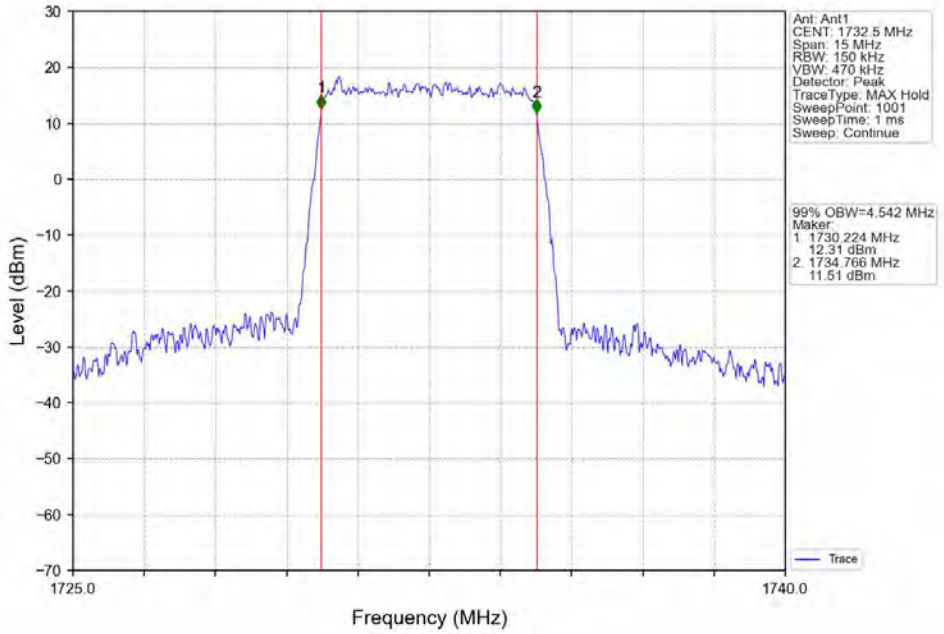
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



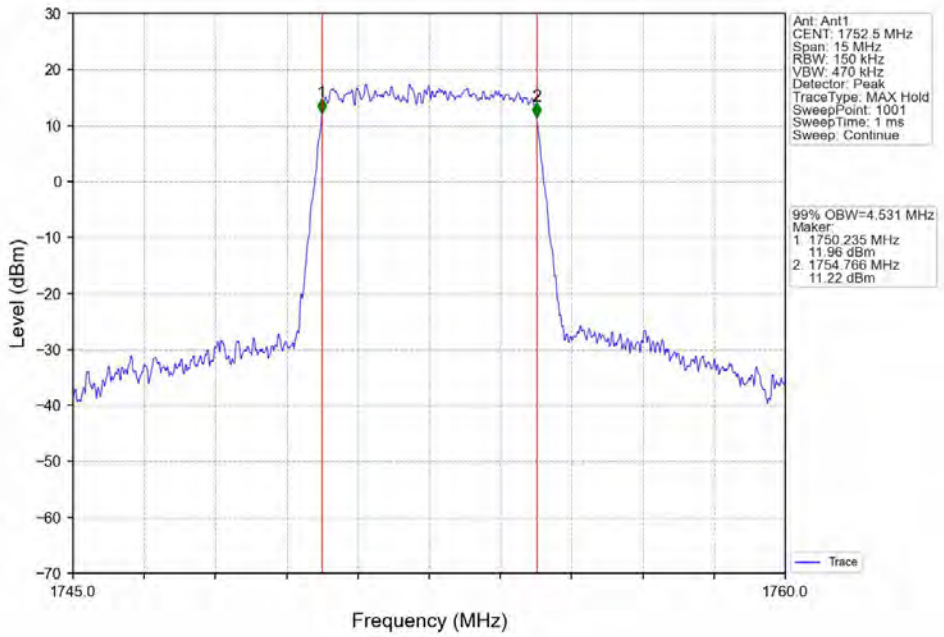

Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



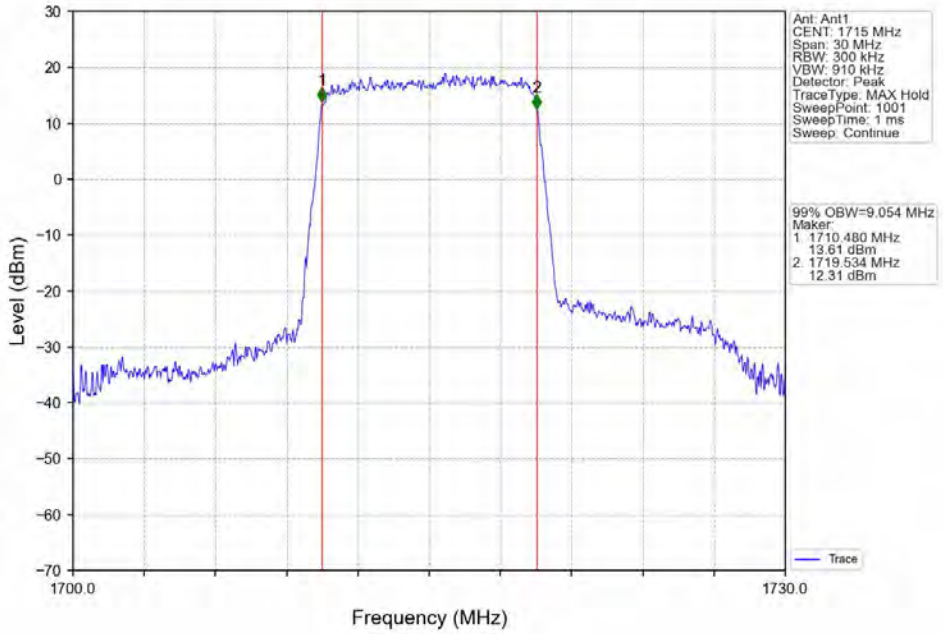
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



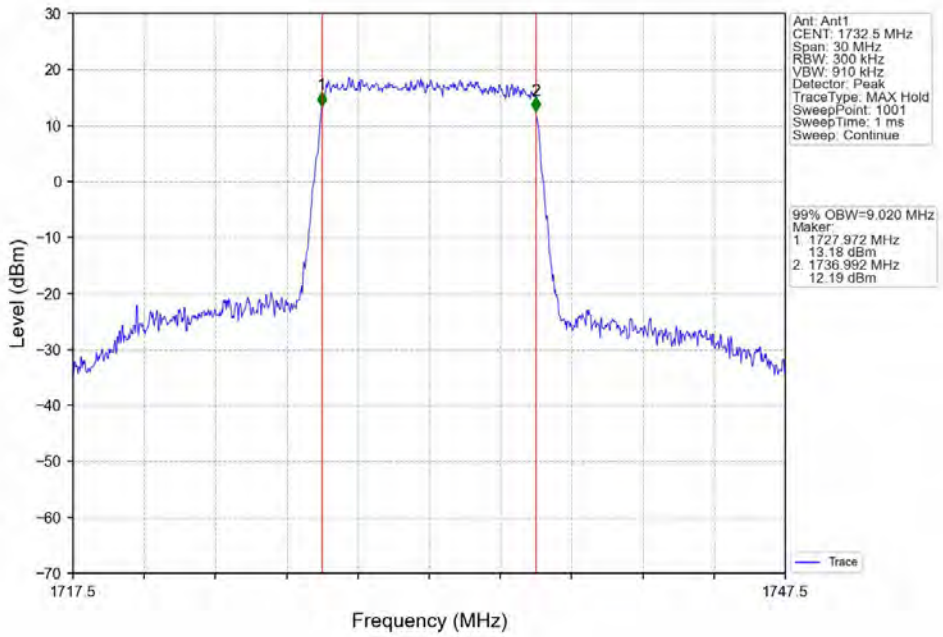

Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



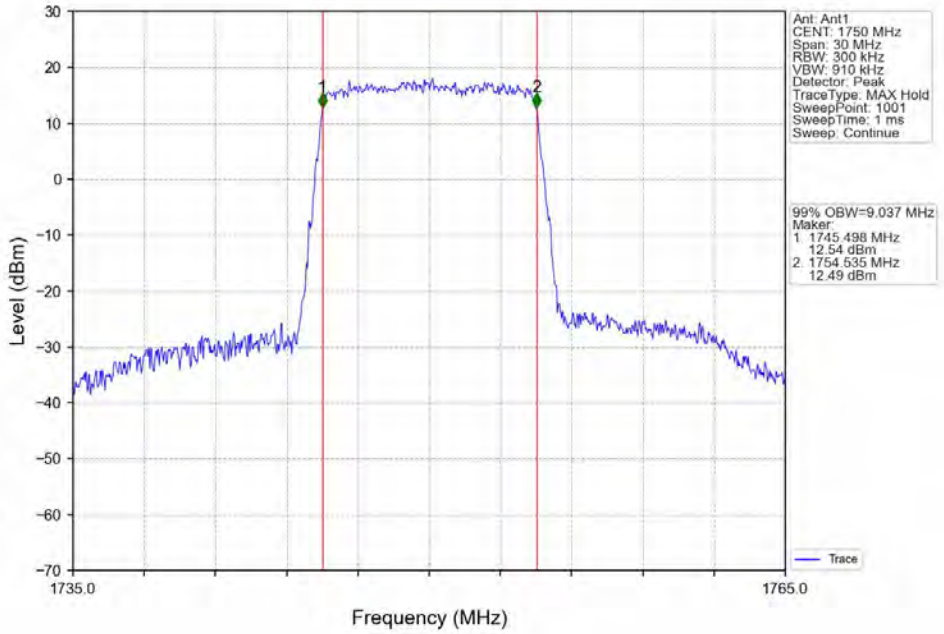
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



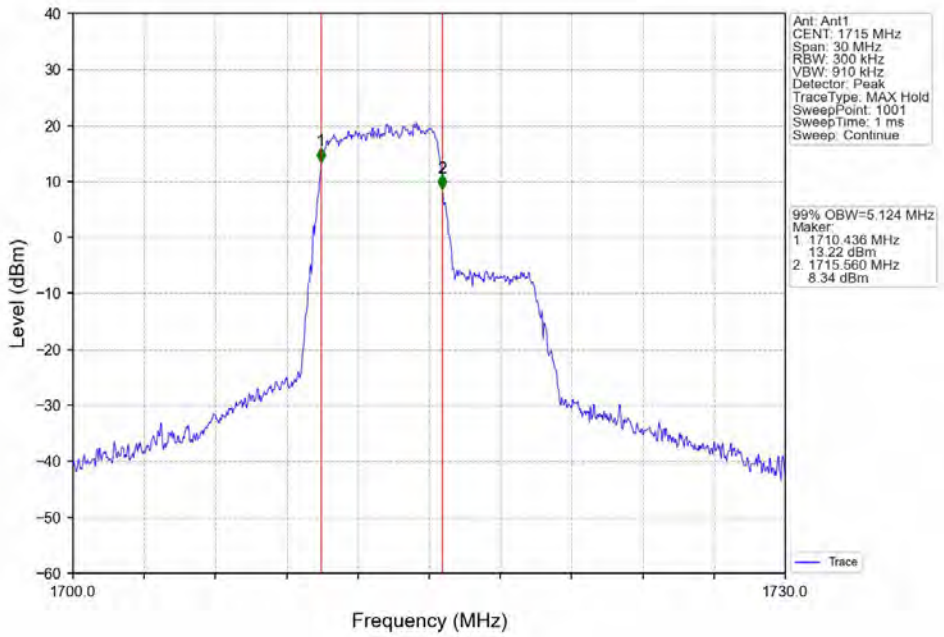

Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



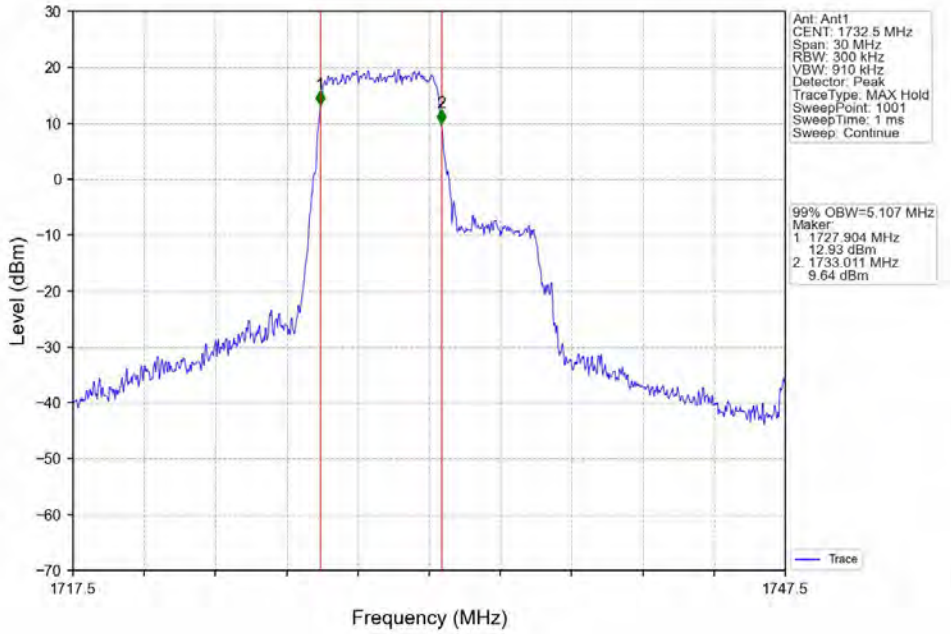
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



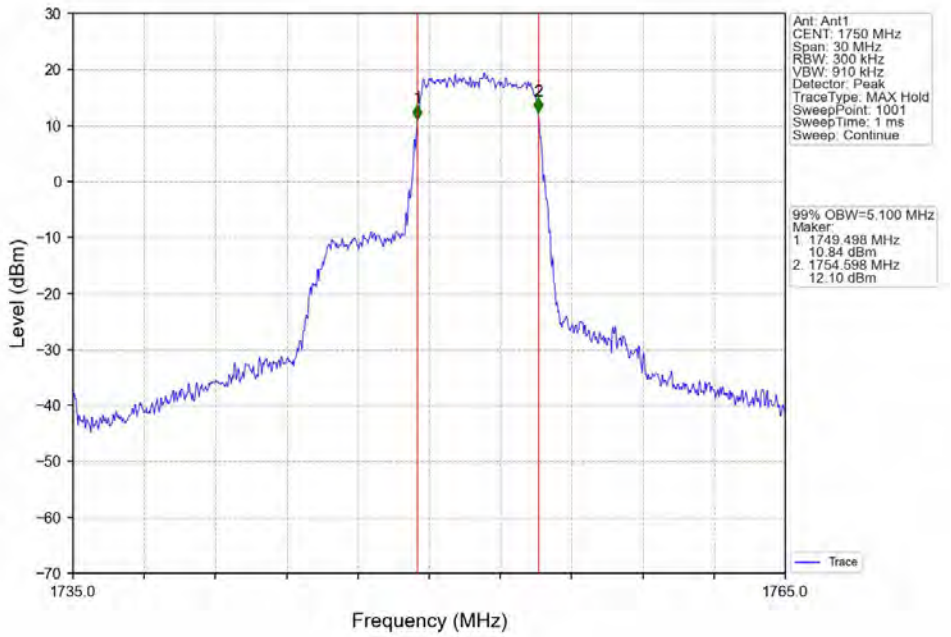

Band4_10MHz_16QAM_LCH_1715MHz_RB_27_0_NTNV



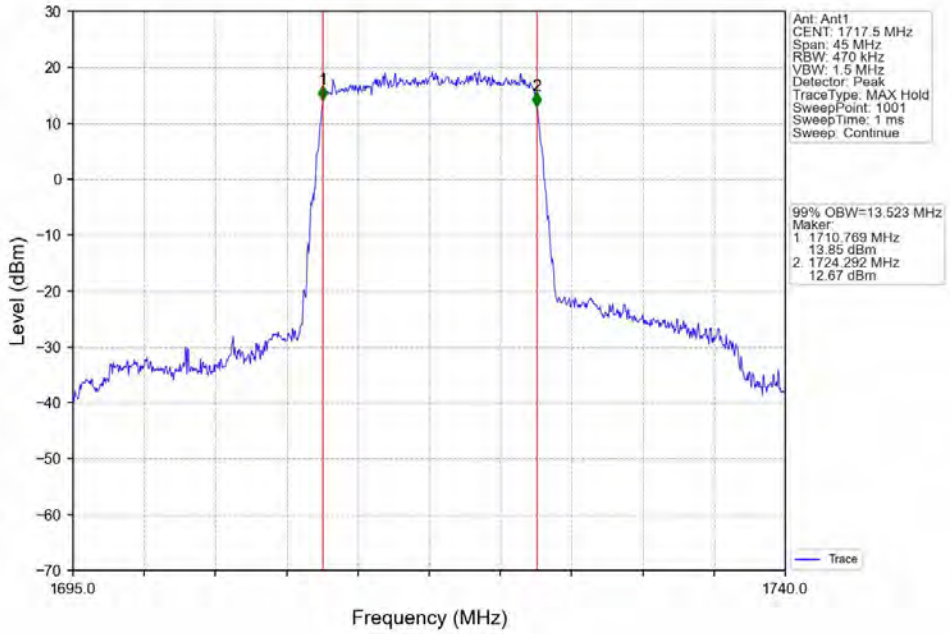
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV



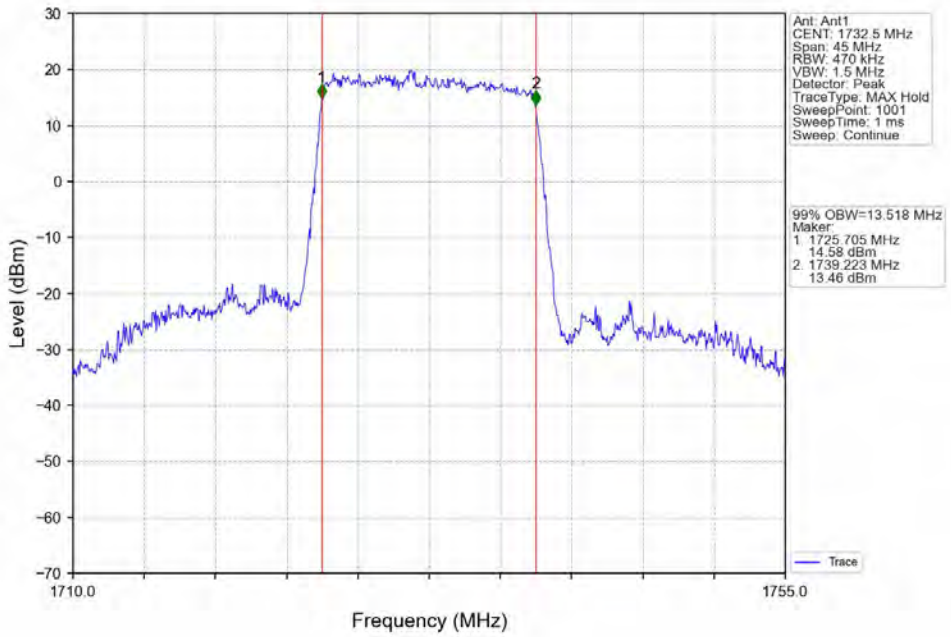

Band4_10MHz_16QAM_HCH_1750MHz_RB_27_23_NTNV



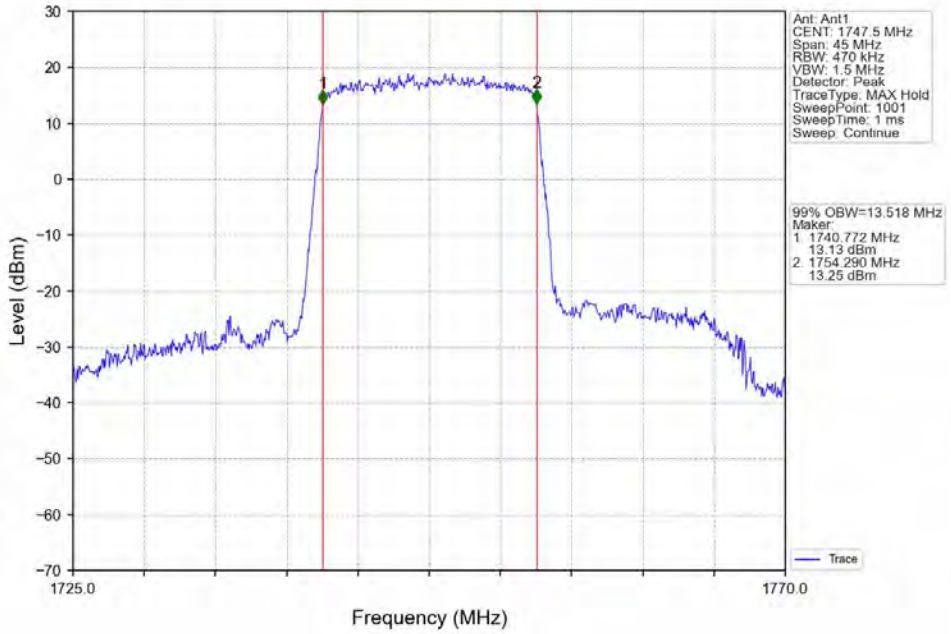
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



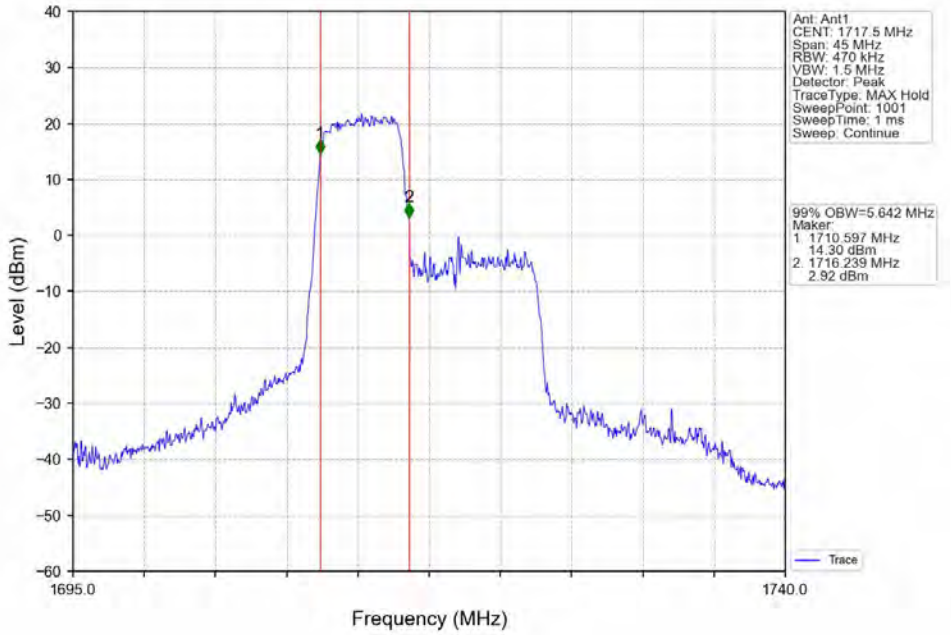

Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



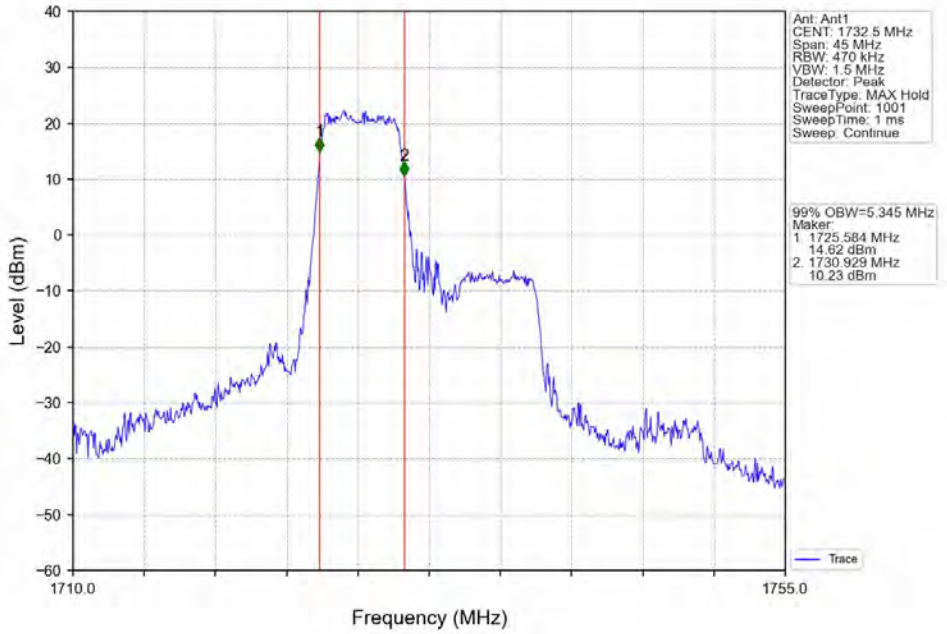
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



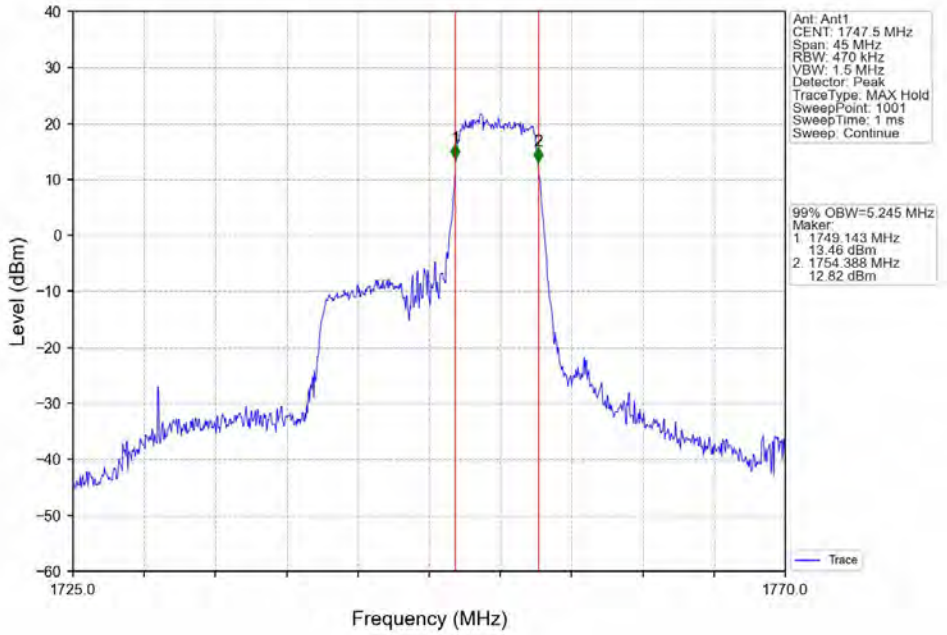

Band4_15MHz_16QAM_LCH_1717.5MHz_RB_27_0_NTNV



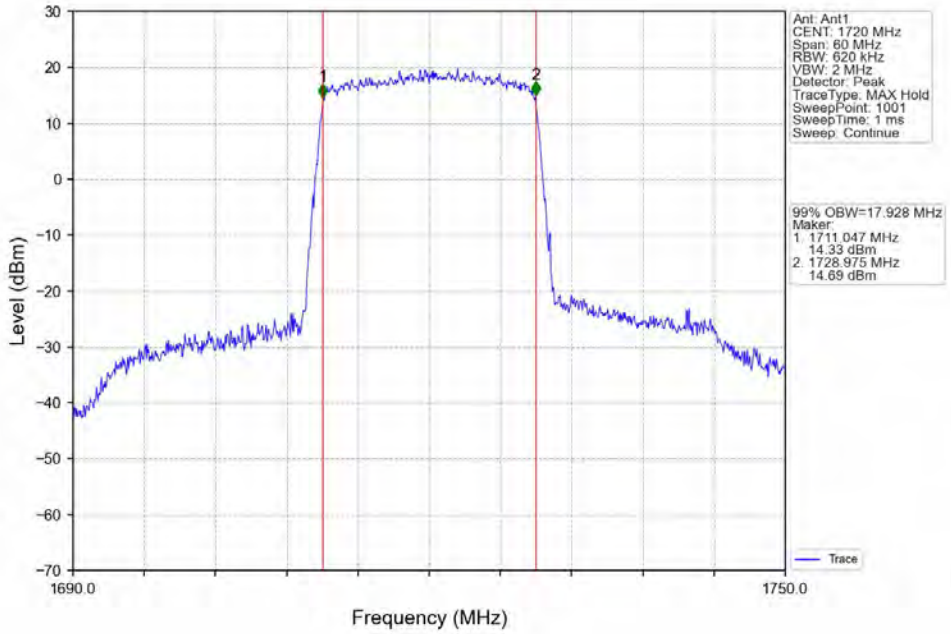
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV



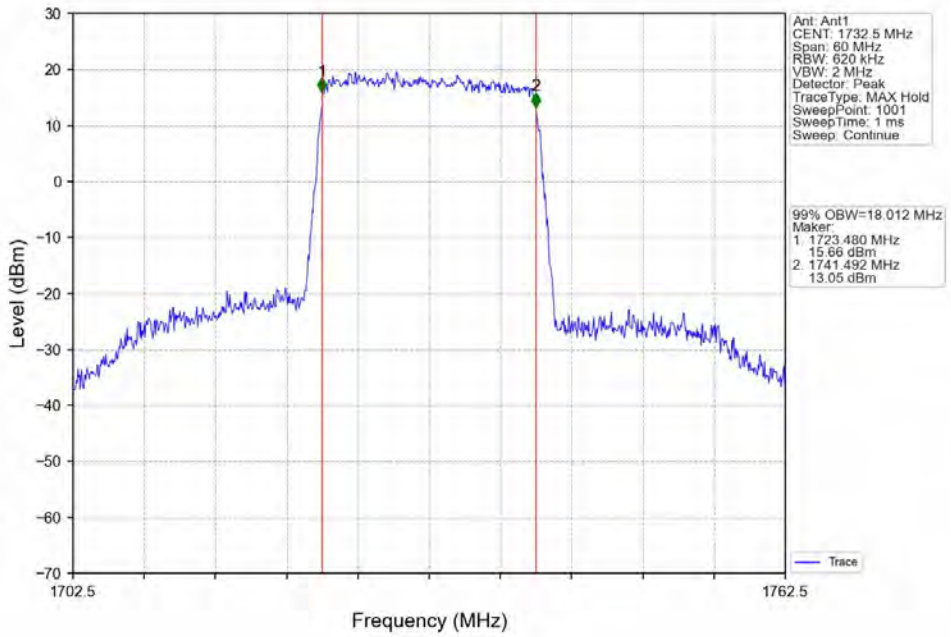

Band4_15MHz_16QAM_HCH_1747.5MHz_RB_27_48_NTNV



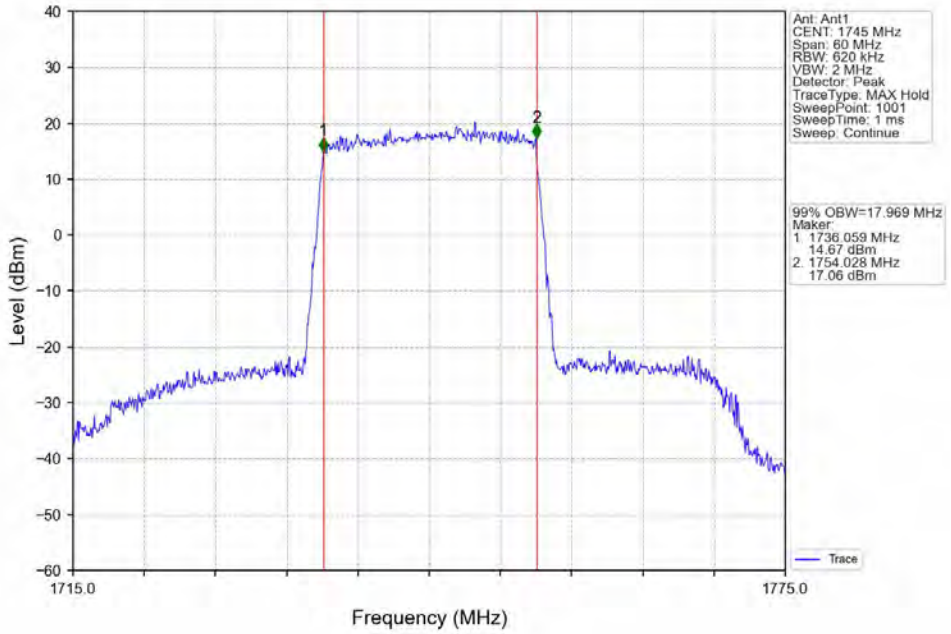
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



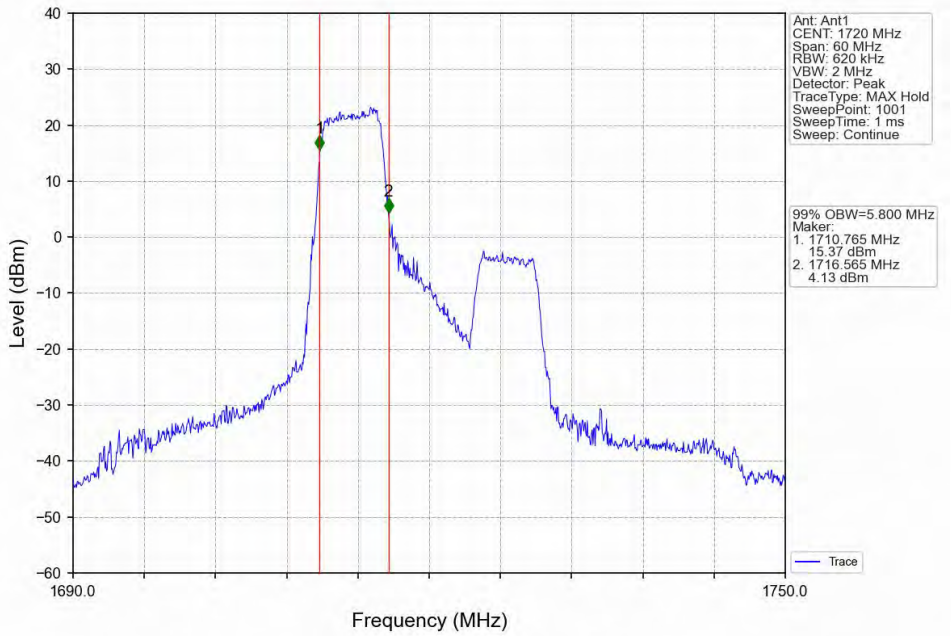

Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



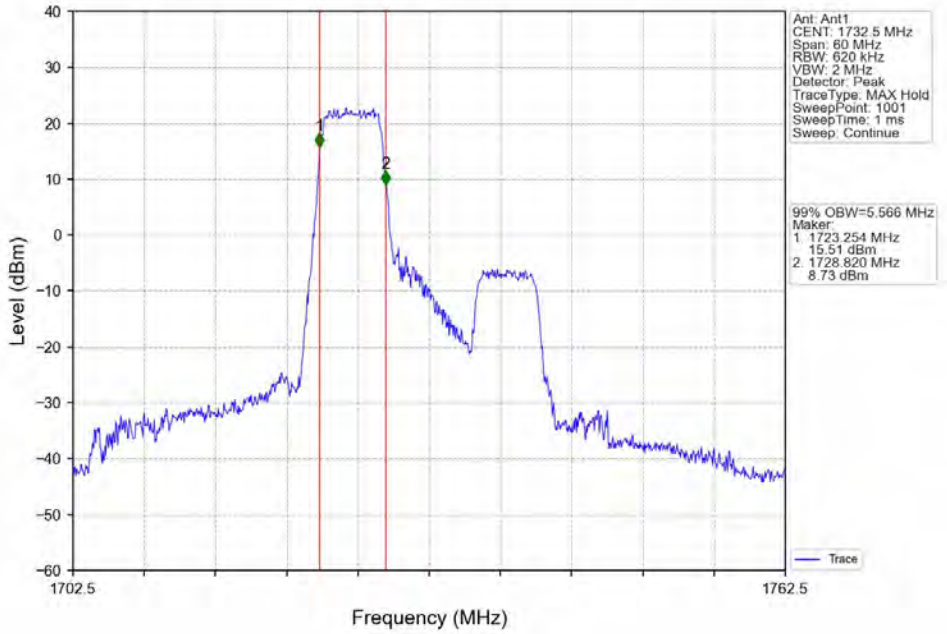
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



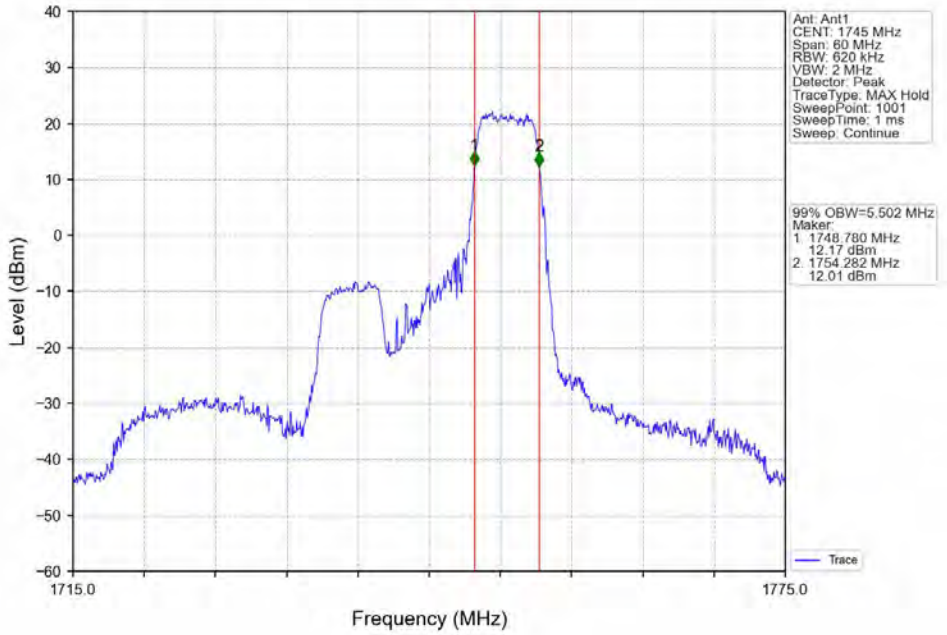

Band4_20MHz_16QAM_LCH_1720MHz_RB_27_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV




Band4_20MHz_16QAM_HCH_1745MHz_RB_27_73_NTNV



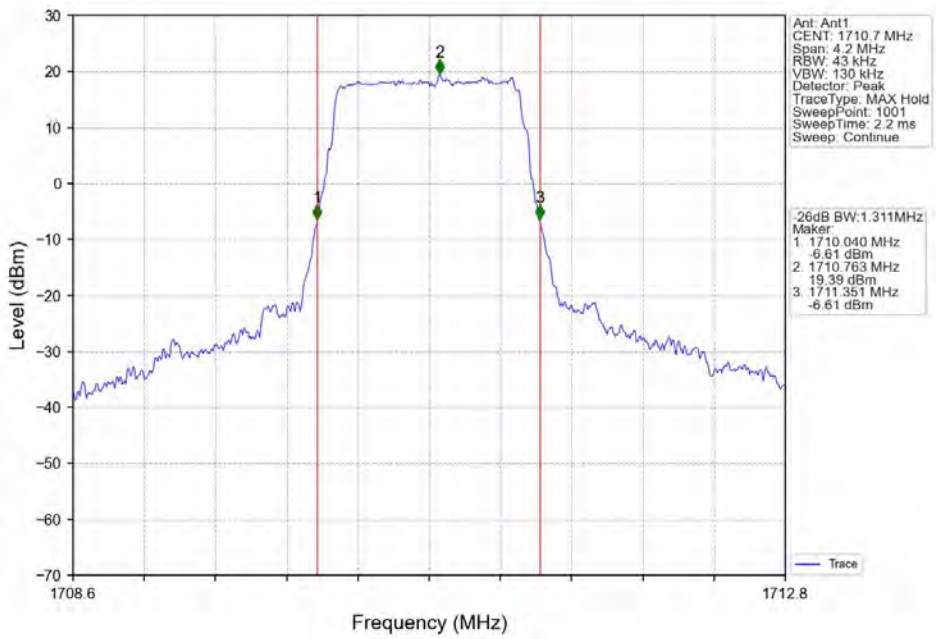
## 4.2 Band4_XDB

### 4.2.1 Test Result

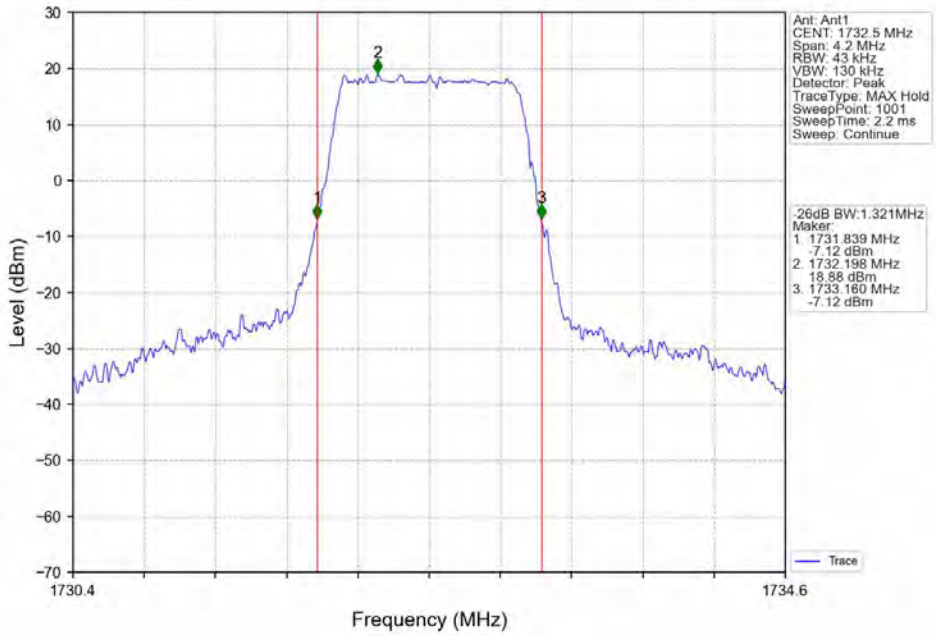
| Band: 4 / NTNV | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation | | 26dB Bandwidth (MHz) | | Verdict |
| | | | Size | Offset | Result | Limit | |
| 1.4 | QPSK | 1710.7 | 6 | 0 | 1.311 | / | Pass |
| | | 1732.5 | 6 | 0 | 1.321 | / | Pass |
| | | 1754.3 | 6 | 0 | 1.331 | / | Pass |
| | 16QAM | 1710.7 | 6 | 0 | 1.319 | / | Pass |
| | | 1732.5 | 6 | 0 | 1.298 | / | Pass |
| | | 1754.3 | 6 | 0 | 1.332 | / | Pass |
| 3 | QPSK | 1711.5 | 15 | 0 | 3.057 | / | Pass |
| | | 1732.5 | 15 | 0 | 3.038 | / | Pass |
| | | 1753.5 | 15 | 0 | 3.038 | / | Pass |
| | 16QAM | 1711.5 | 15 | 0 | 3.049 | / | Pass |
| | | 1732.5 | 15 | 0 | 3.043 | / | Pass |
| | | 1753.5 | 15 | 0 | 3.060 | / | Pass |
| 5 | QPSK | 1712.5 | 25 | 0 | 5.086 | / | Pass |
| | | 1732.5 | 25 | 0 | 5.055 | / | Pass |
| | | 1752.5 | 25 | 0 | 5.082 | / | Pass |
| | 16QAM | 1712.5 | 25 | 0 | 5.079 | / | Pass |
| | | 1732.5 | 25 | 0 | 5.081 | / | Pass |
| | | 1752.5 | 25 | 0 | 5.042 | / | Pass |
| 10 | QPSK | 1715 | 50 | 0 | 10.021 | / | Pass |
| | | 1732.5 | 50 | 0 | 10.018 | / | Pass |
| | | 1750 | 50 | 0 | 10.171 | / | Pass |
| | 16QAM | 1715 | 27 | 0 | 6.042 | / | Pass |
| | | 1732.5 | 27 | 0 | 6.131 | / | Pass |
| | | 1750 | 27 | 23 | 6.025 | / | Pass |
| 15 | QPSK | 1717.5 | 75 | 0 | 15.071 | / | Pass |
| | | 1732.5 | 75 | 0 | 14.898 | / | Pass |
| | | 1747.5 | 75 | 0 | 14.934 | / | Pass |
| | 16QAM | 1717.5 | 27 | 0 | 13.497 | / | Pass |
| | | 1732.5 | 27 | 0 | 7.002 | / | Pass |
| | | 1747.5 | 27 | 48 | 6.360 | / | Pass |
| 20 | QPSK | 1720 | 100 | 0 | 19.749 | / | Pass |
| | | 1732.5 | 100 | 0 | 19.758 | / | Pass |
| | | 1745 | 100 | 0 | 19.689 | / | Pass |
| | 16QAM | 1720 | 27 | 0 | 16.074 | / | Pass |
| | | 1732.5 | 27 | 0 | 7.301 | / | Pass |
| | | 1745 | 27 | 73 | 7.398 | / | Pass |

### 4.2.2 Test Graph

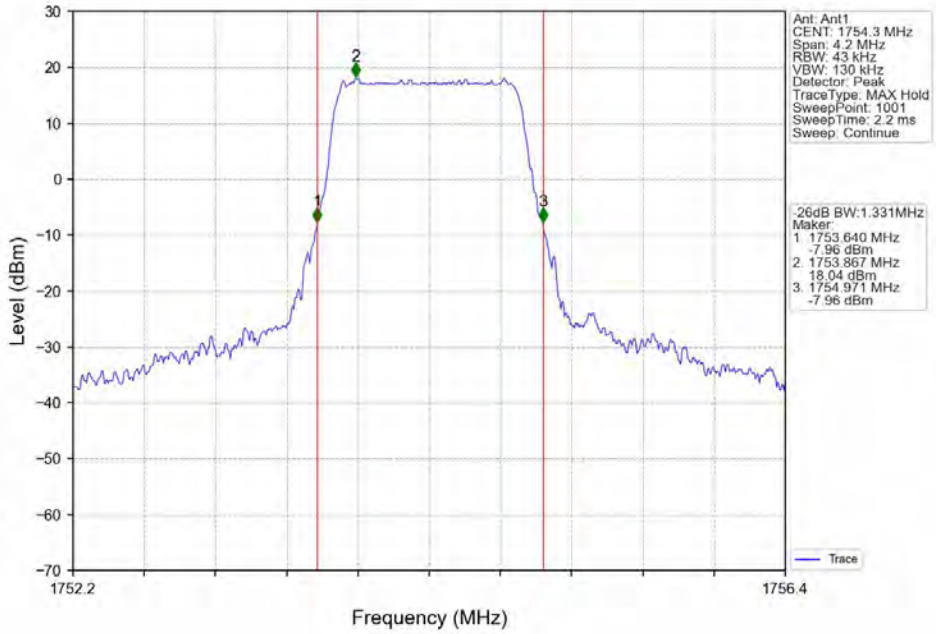
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



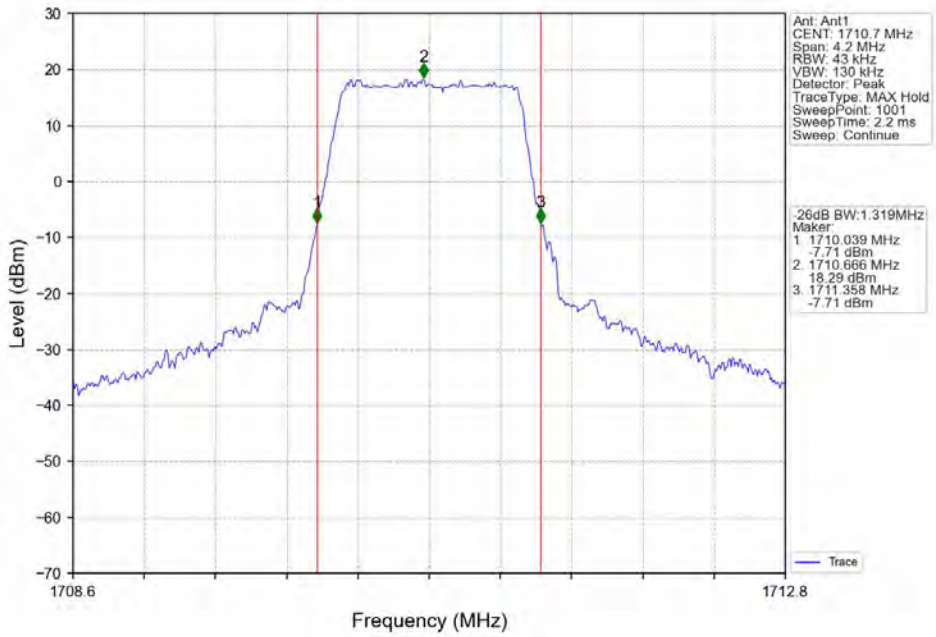

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



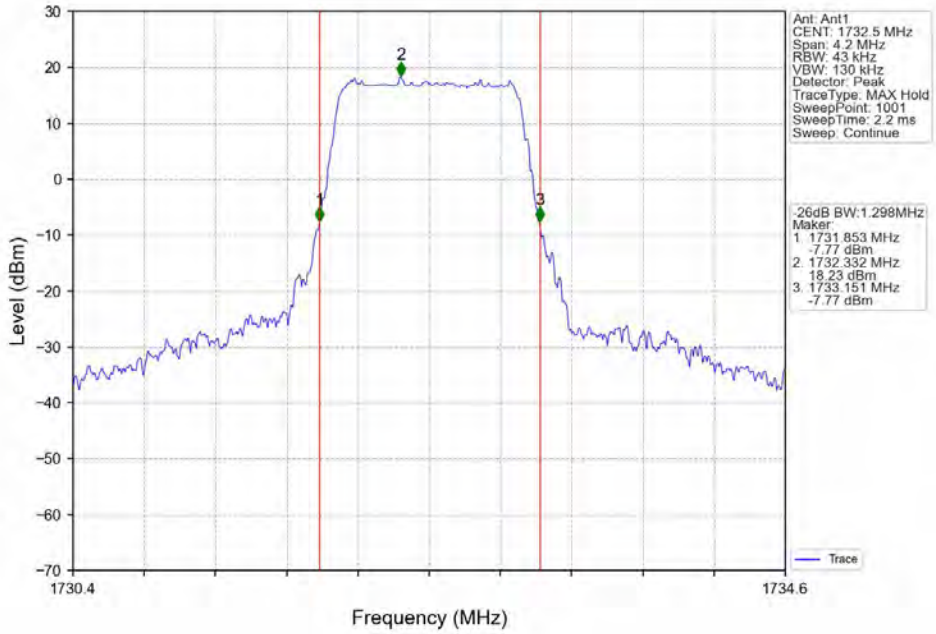
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



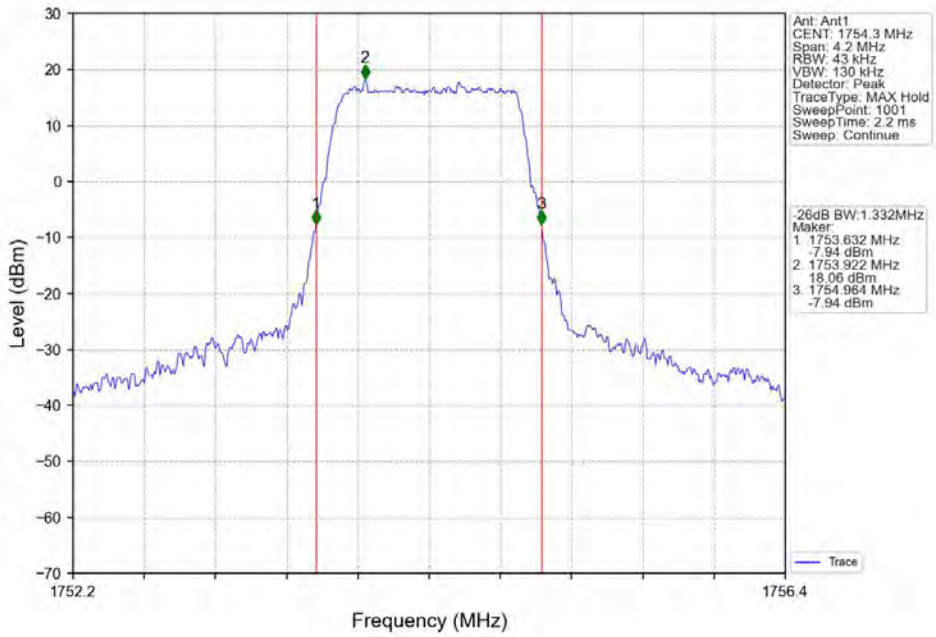

Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



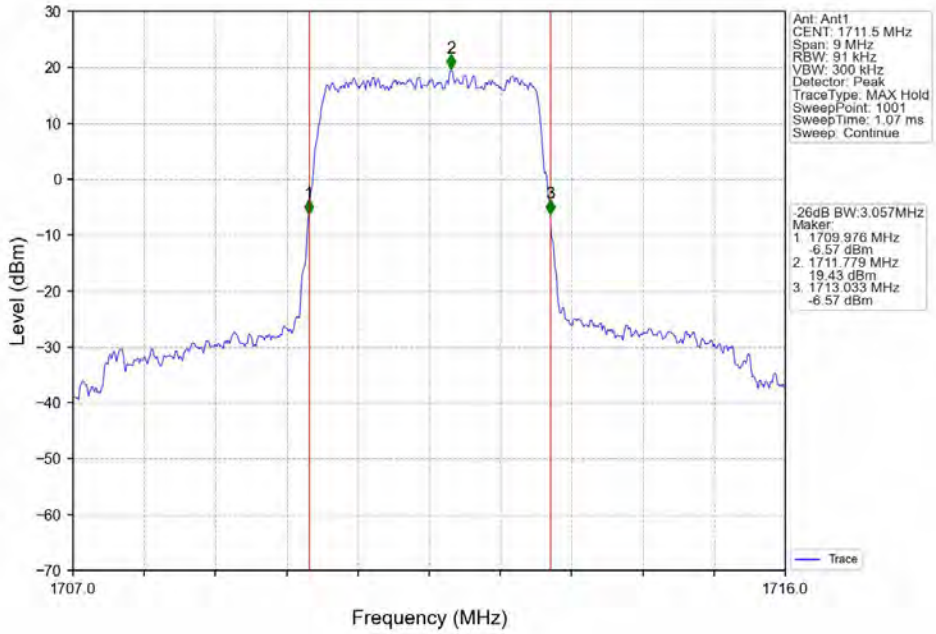
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



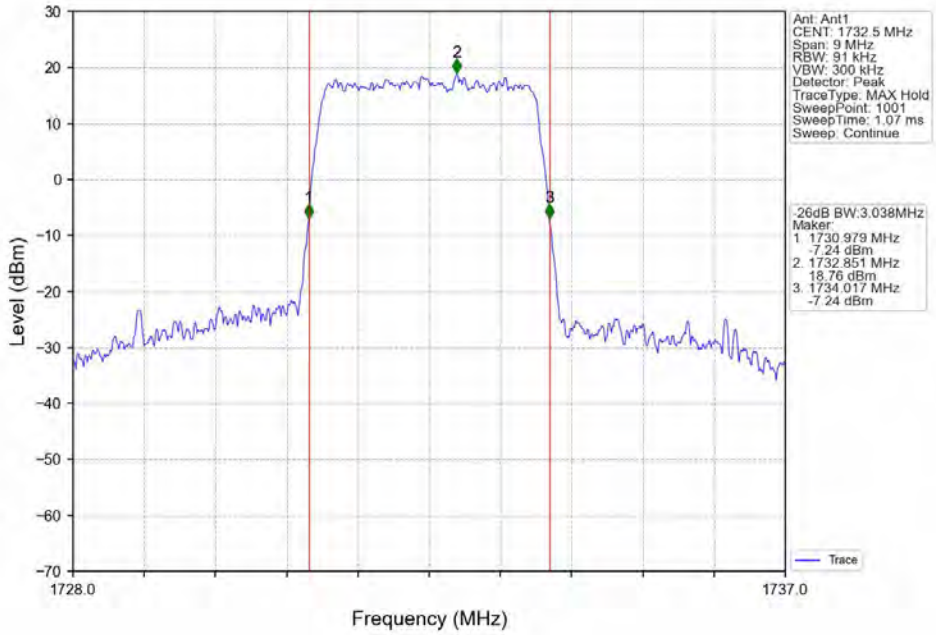

Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



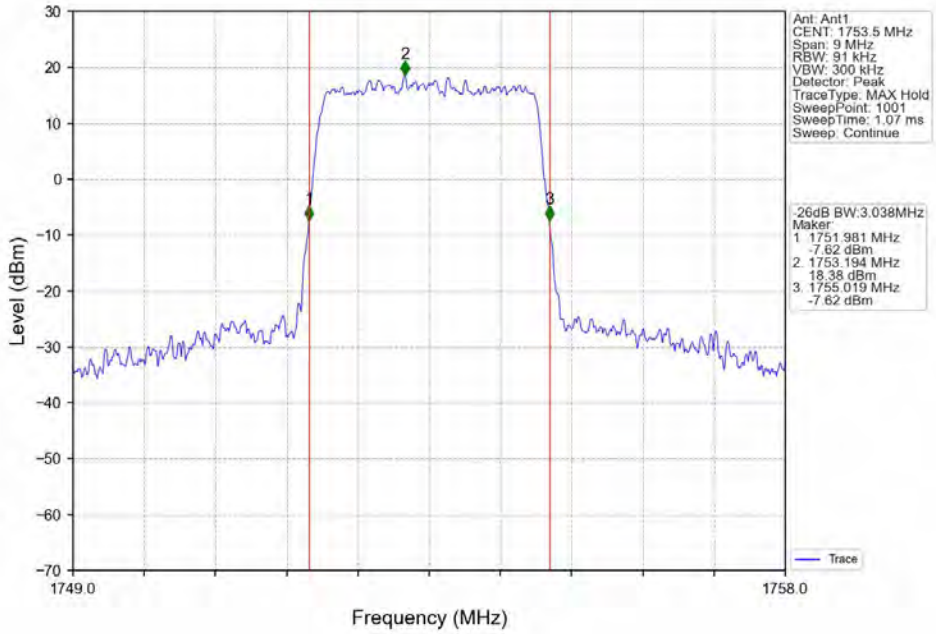
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



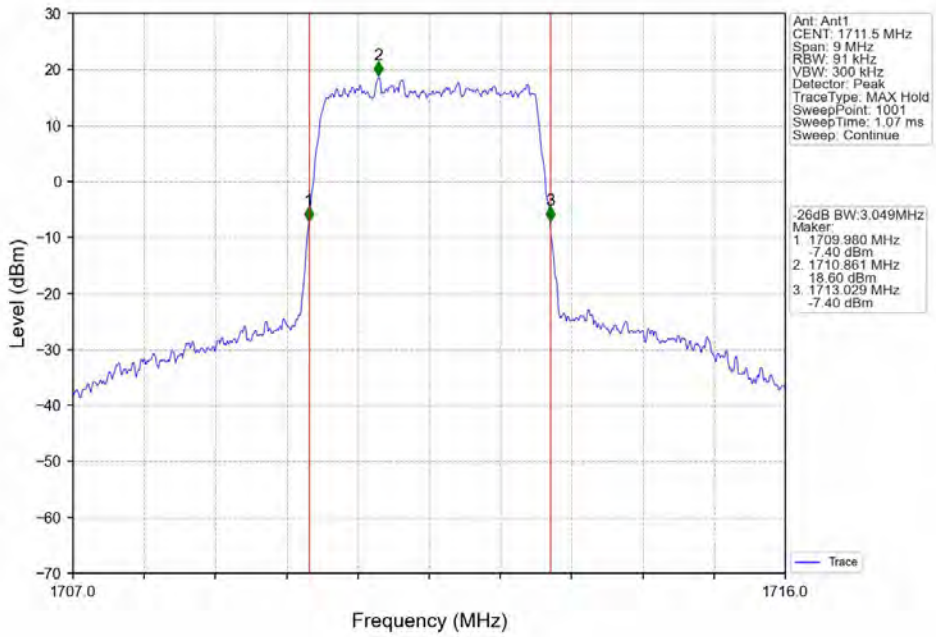

Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



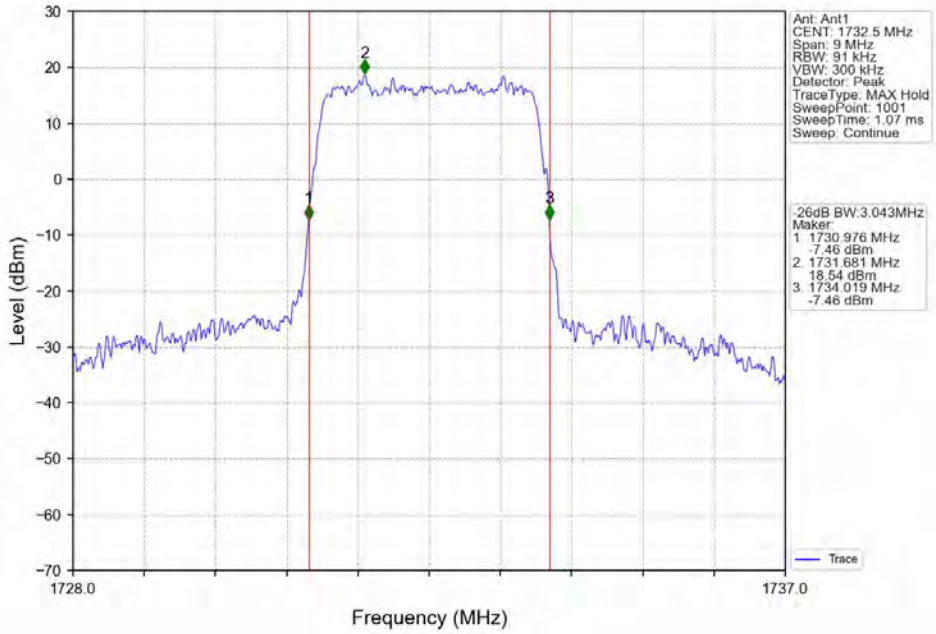
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



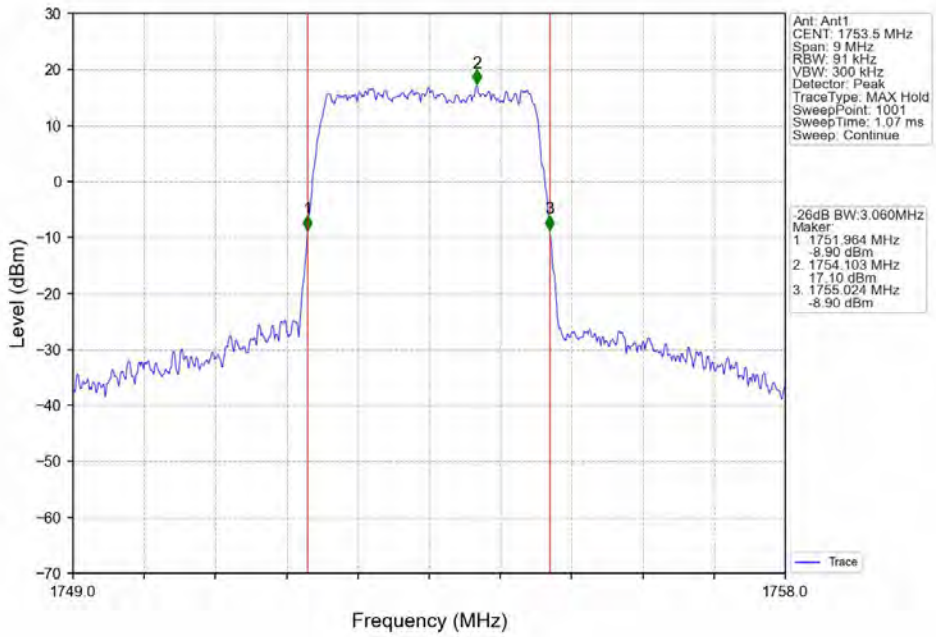

Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



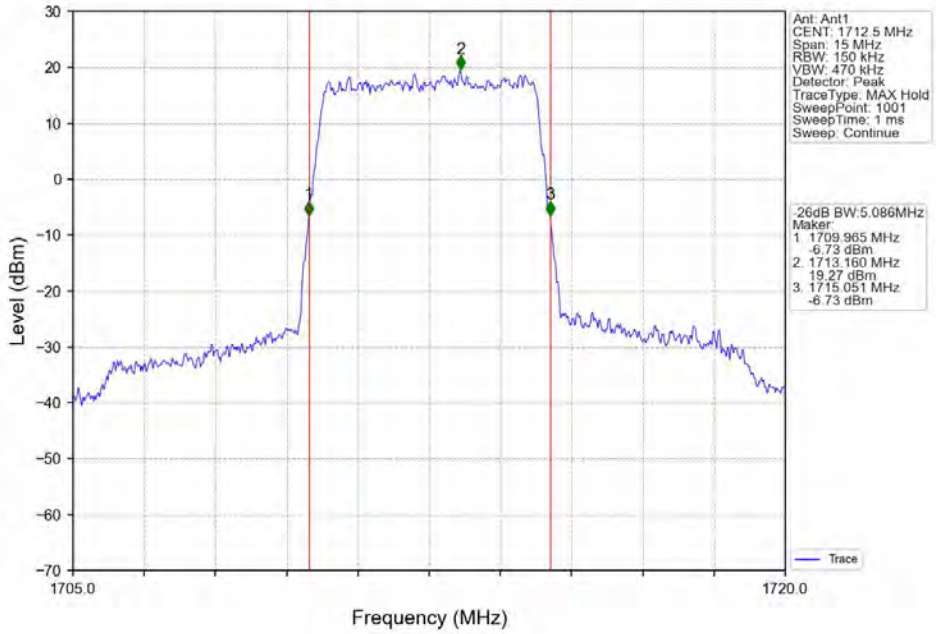
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



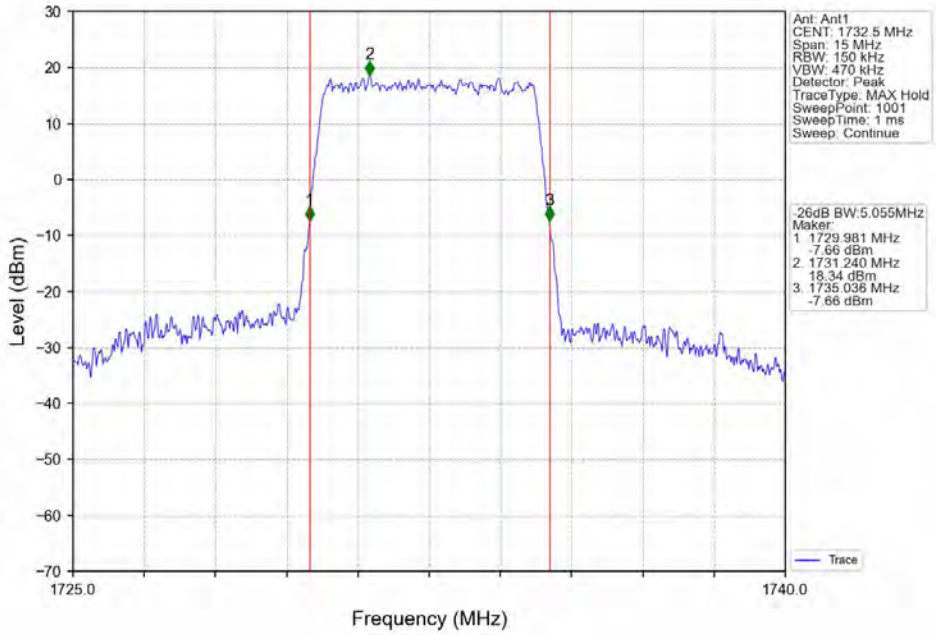

Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



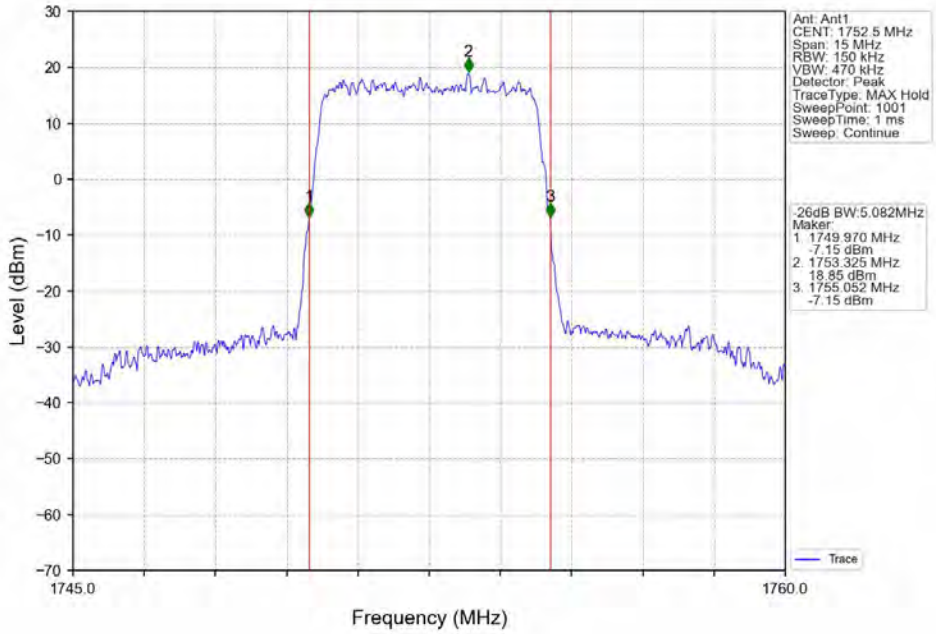
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



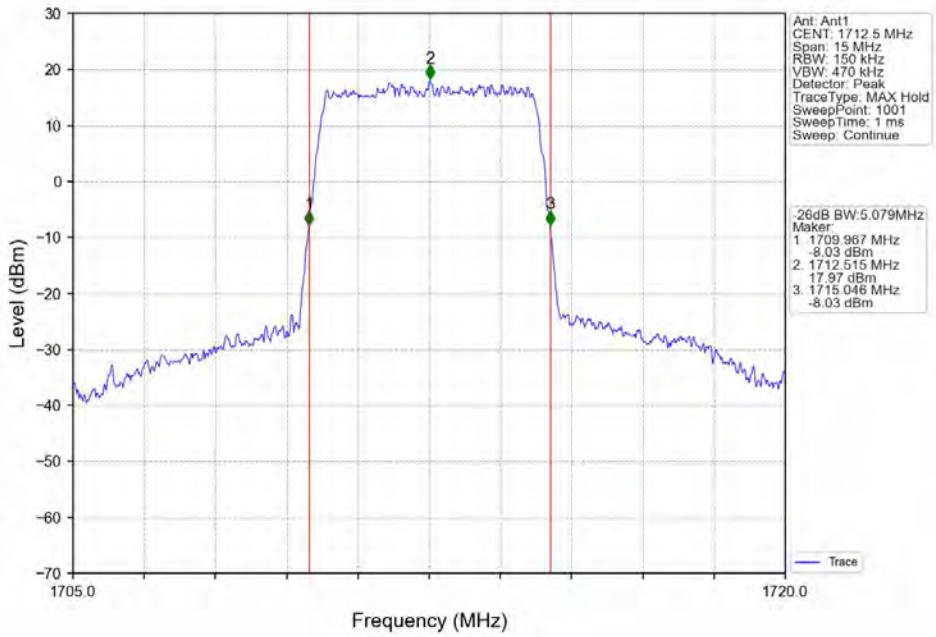

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



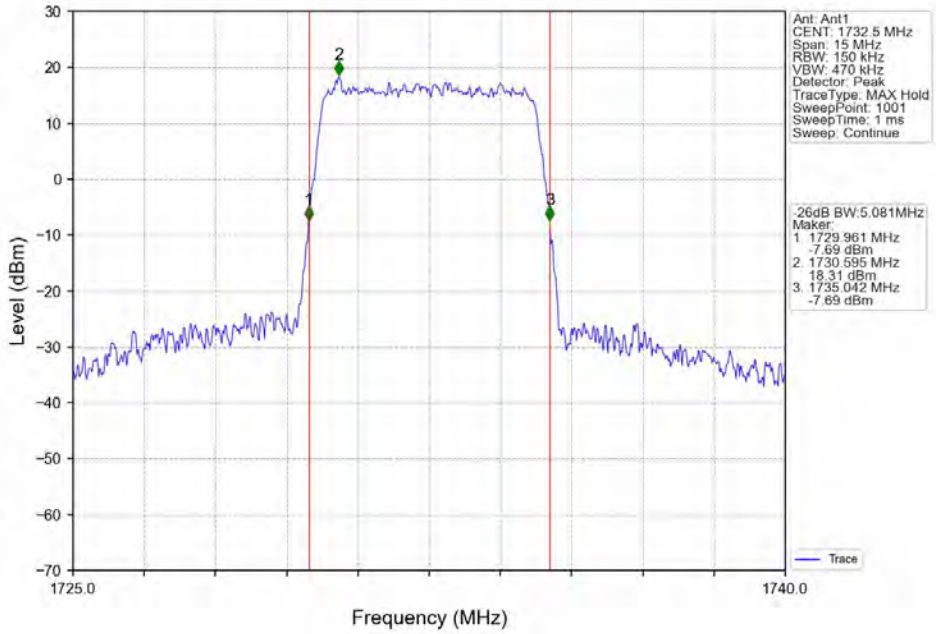
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



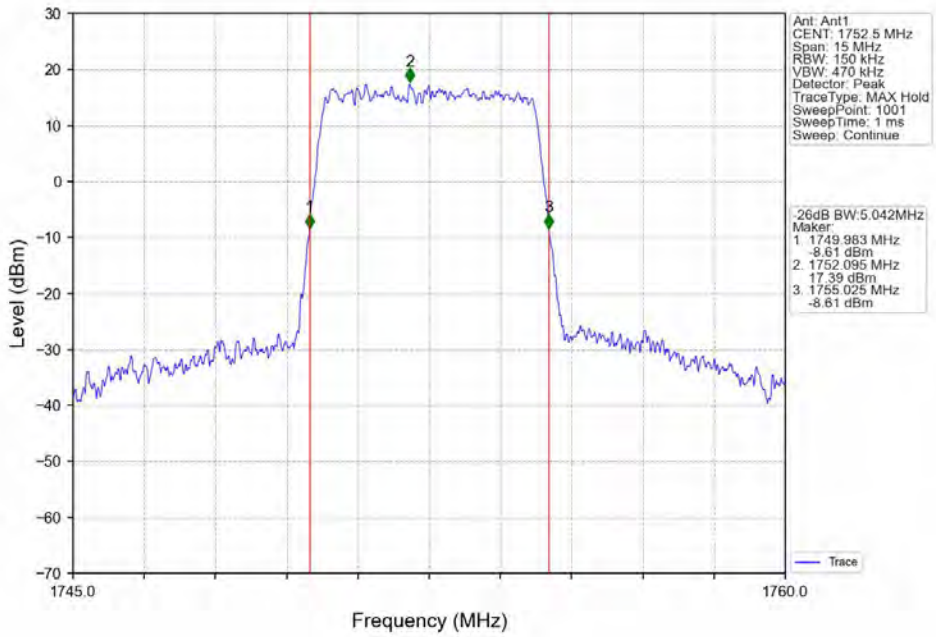

Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



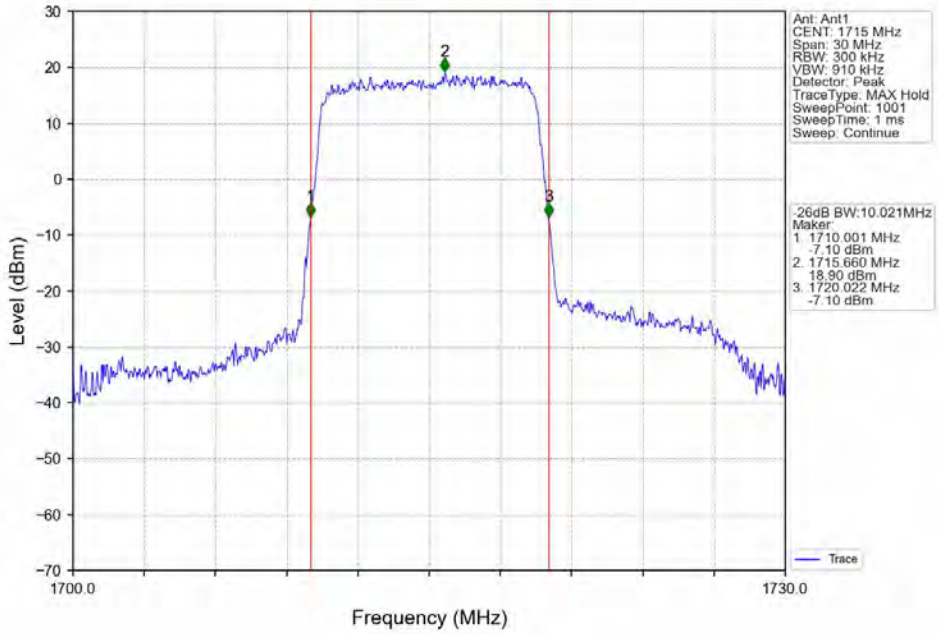
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



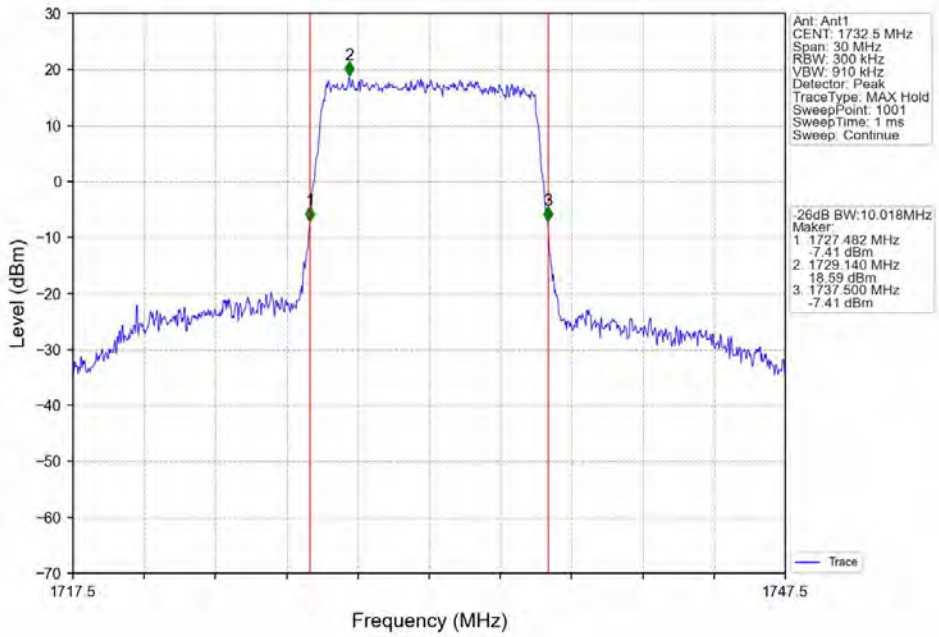

Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



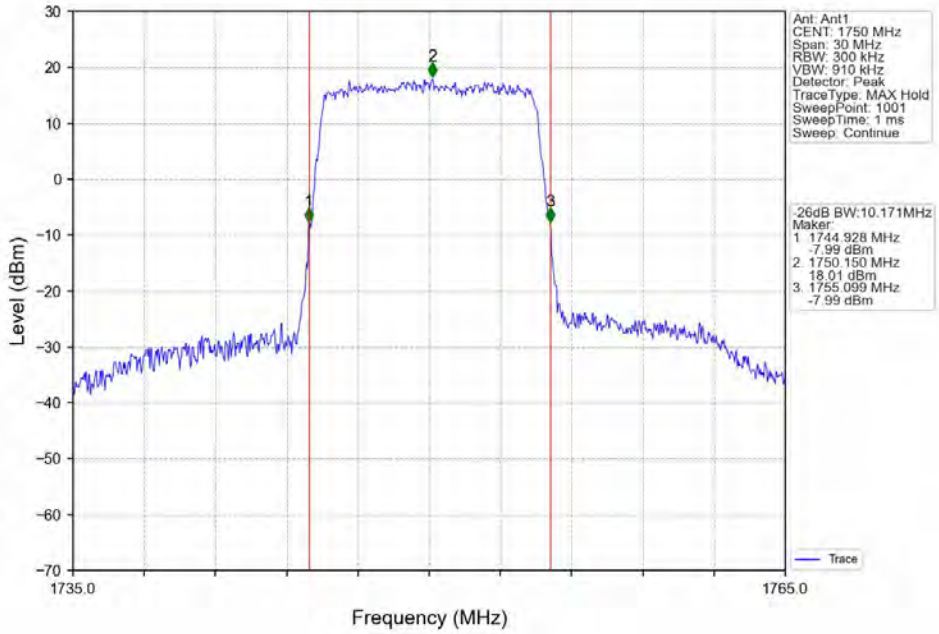
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



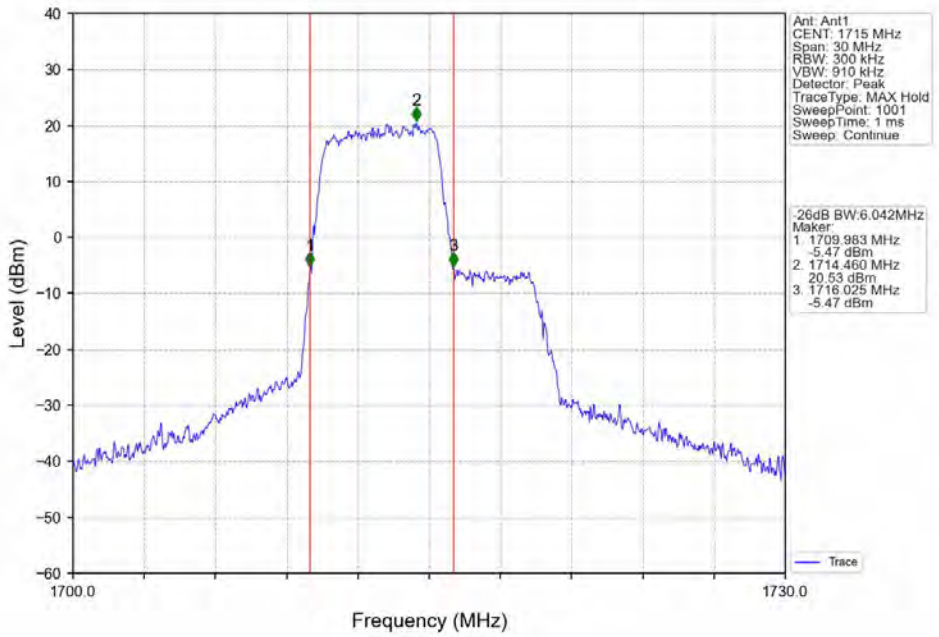

Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



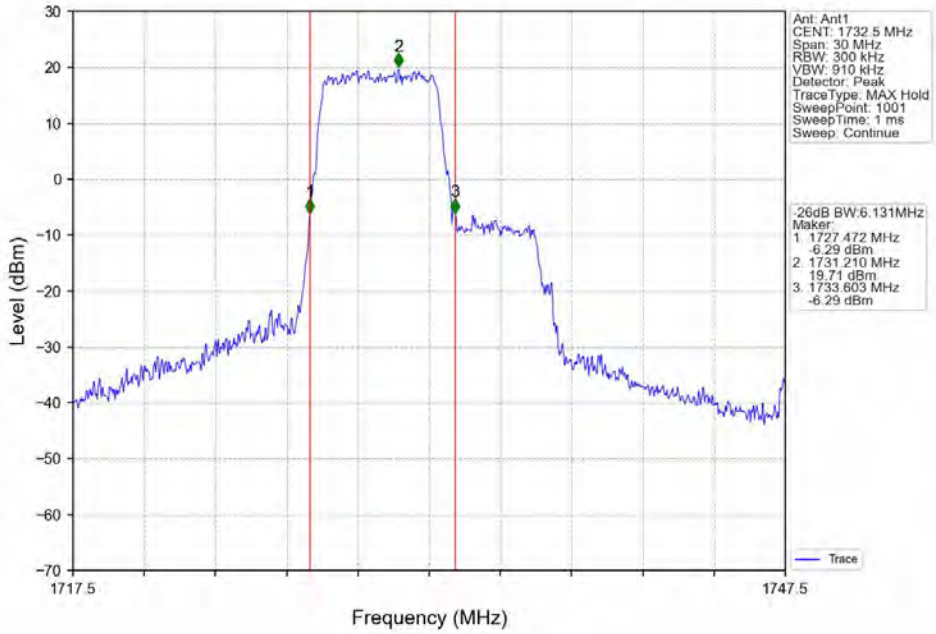
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



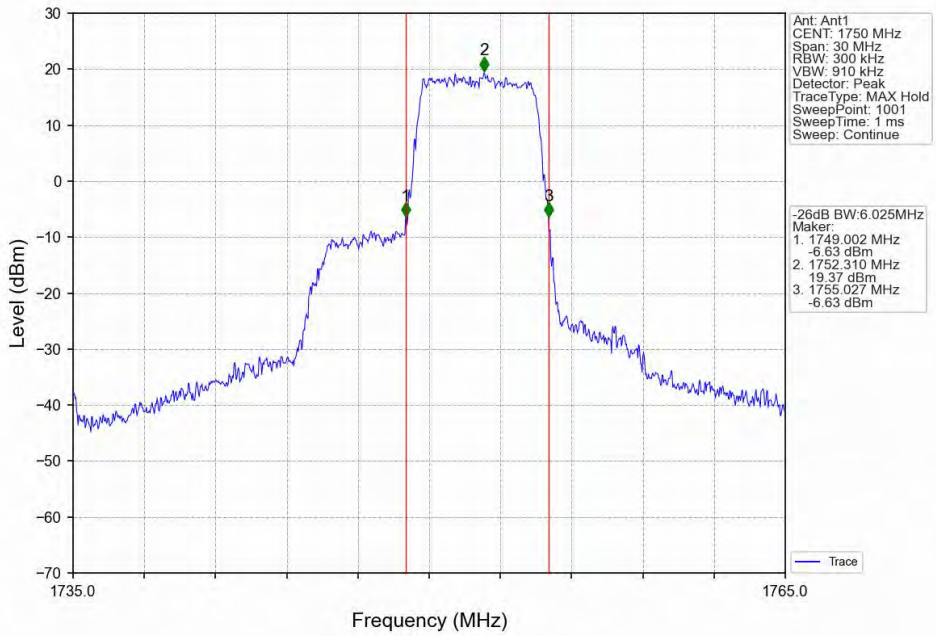

Band4_10MHz_16QAM_LCH_1715MHz_RB_27_0_NTNV



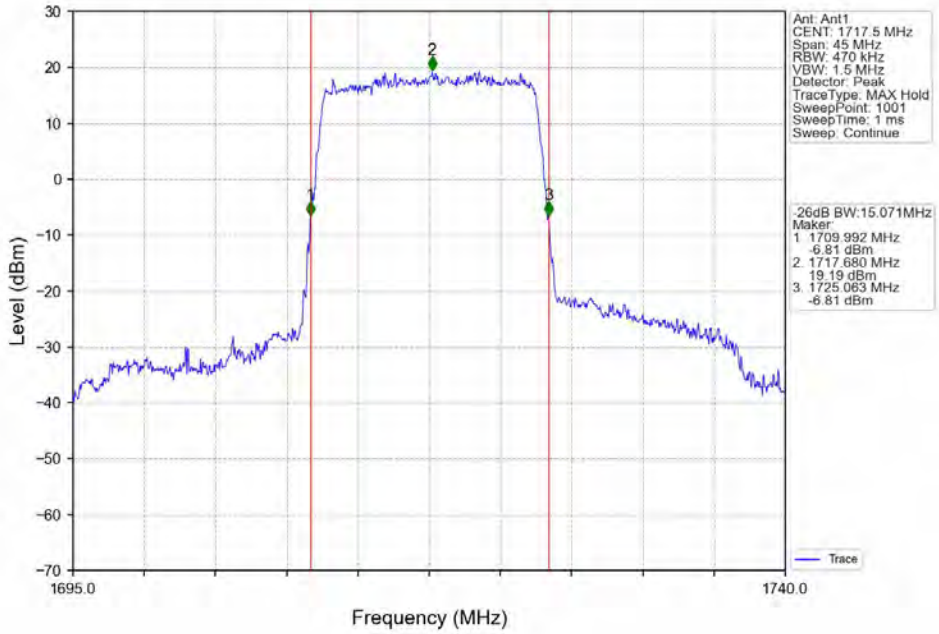
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV



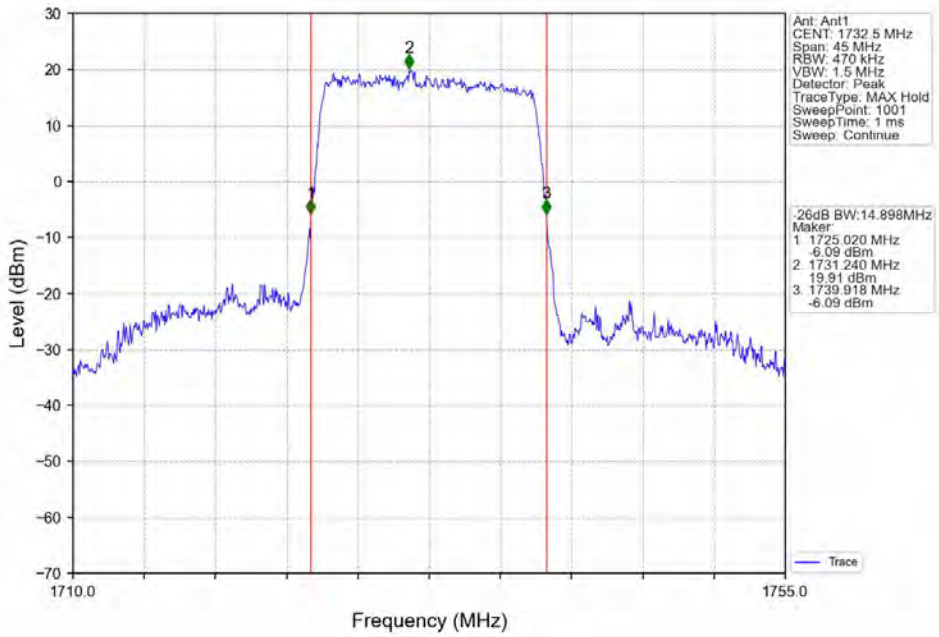

Band4_10MHz_16QAM_HCH_1750MHz_RB_27_23_NTNV



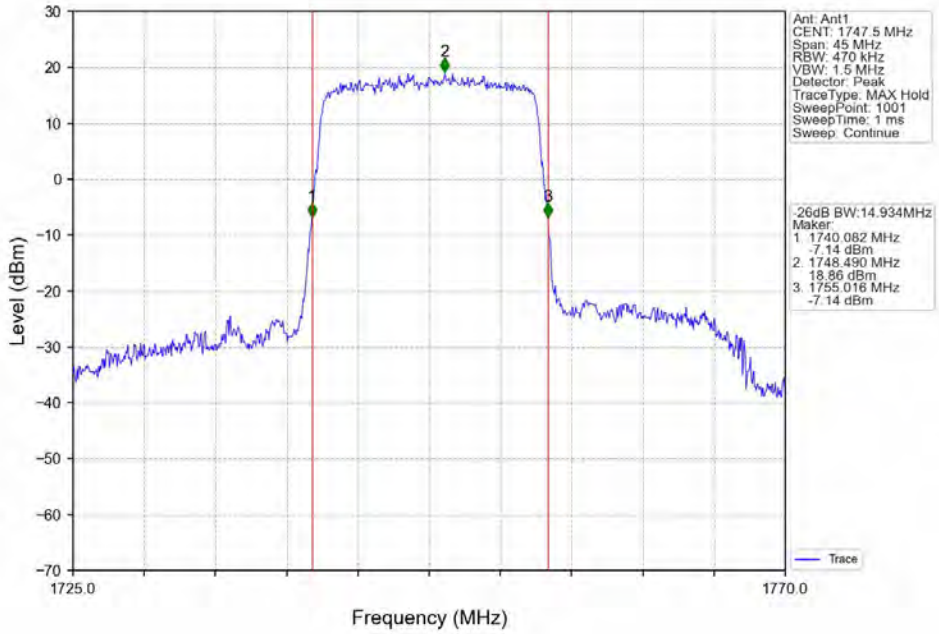
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



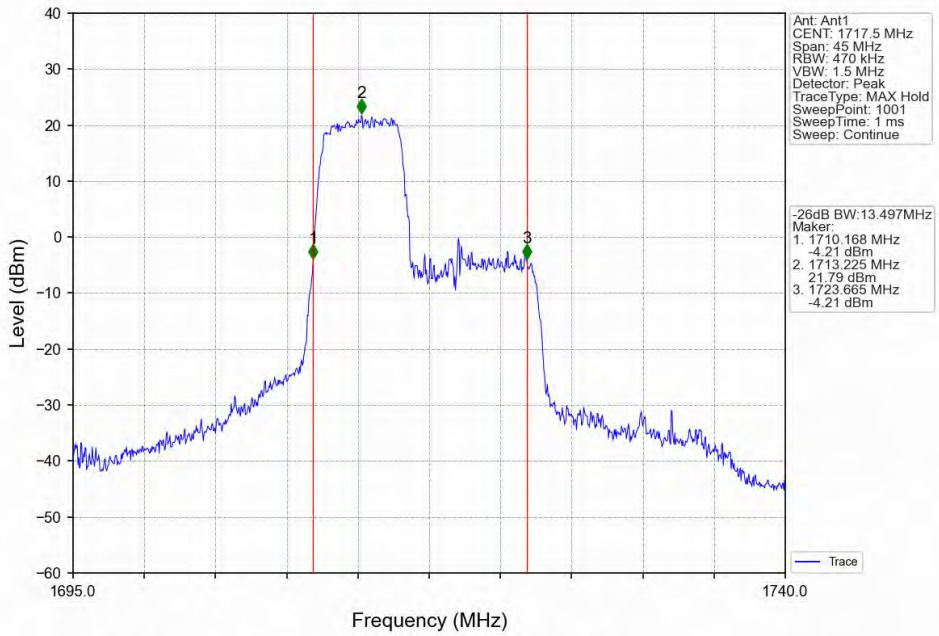

Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



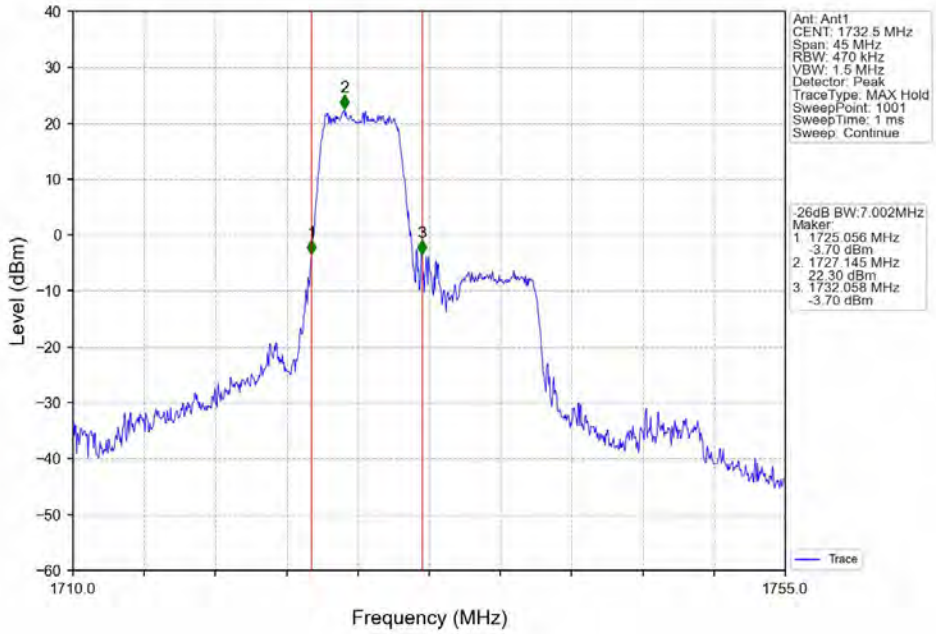
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



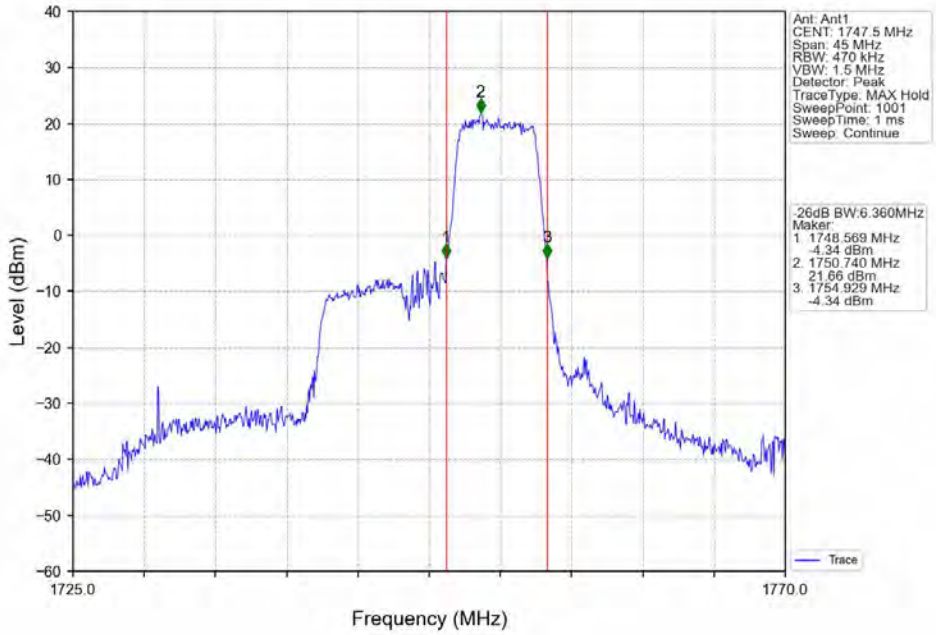

Band4_15MHz_16QAM_LCH_1717.5MHz_RB_27_0_NTNV



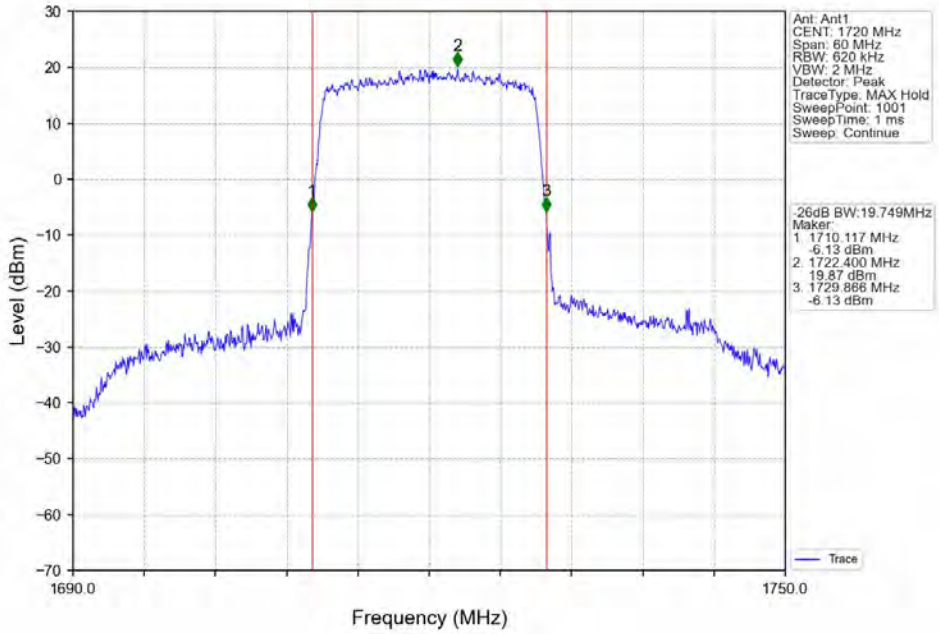
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV



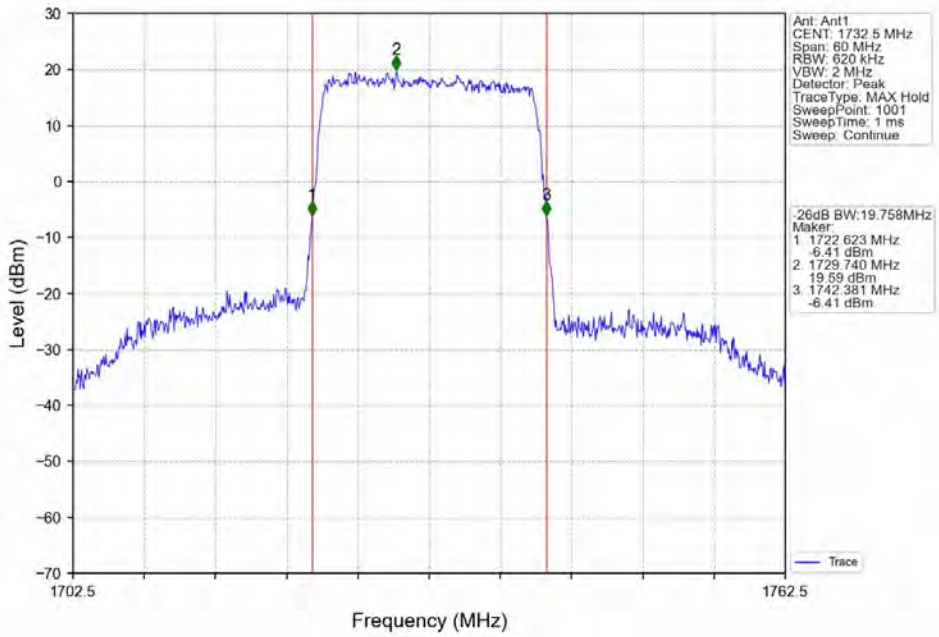

Band4_15MHz_16QAM_HCH_1747.5MHz_RB_27_48_NTNV



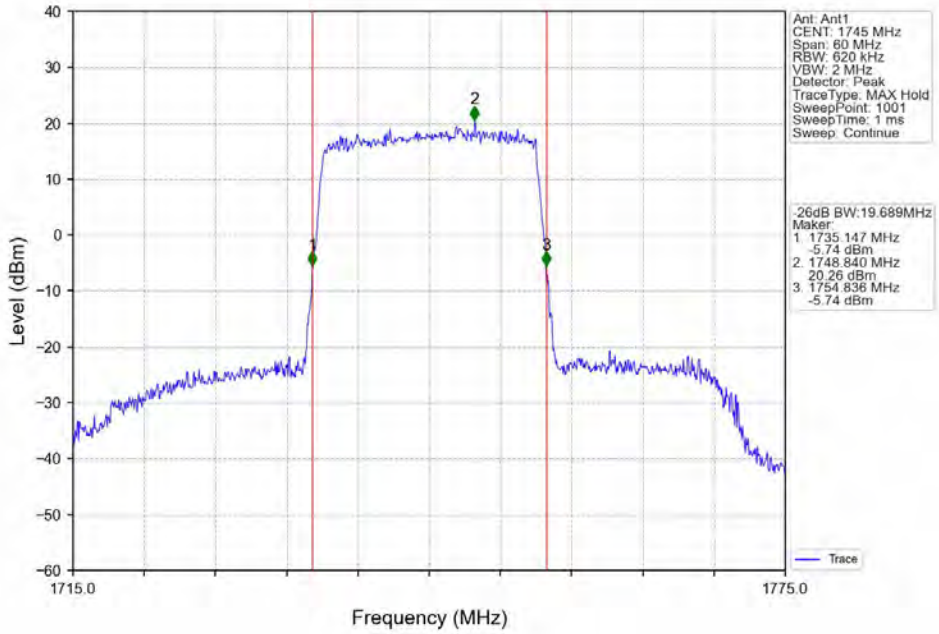
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



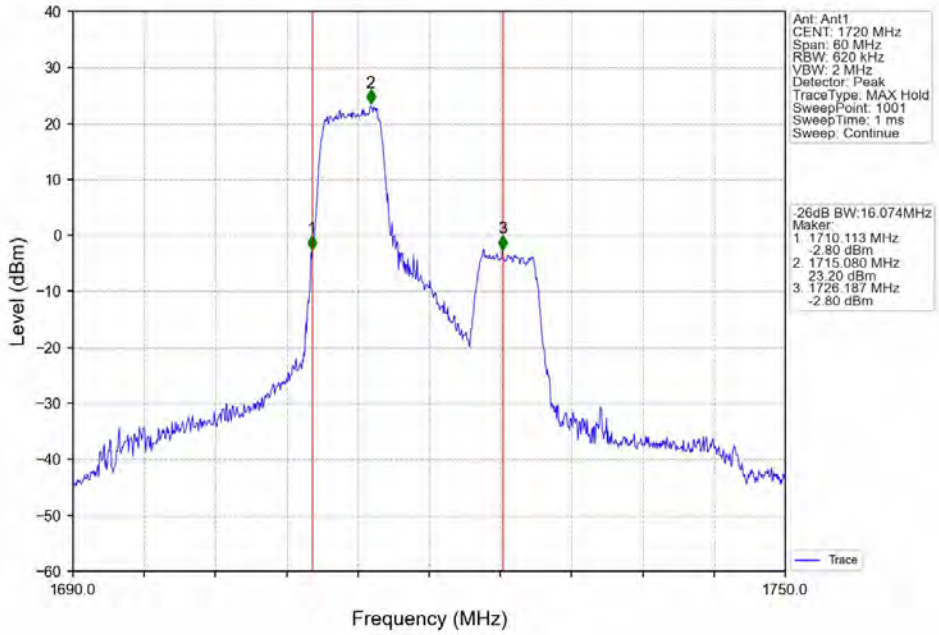

Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



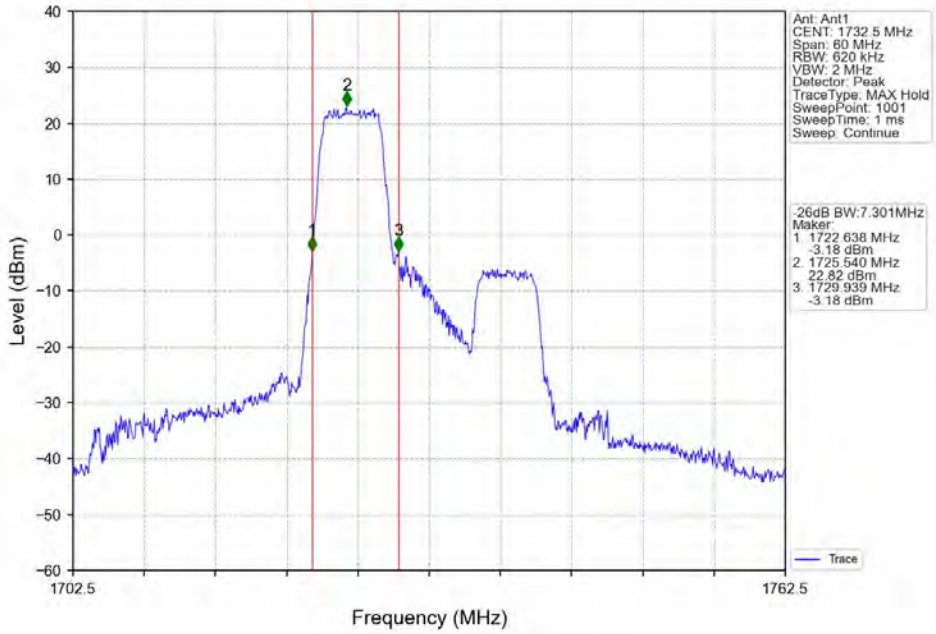
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



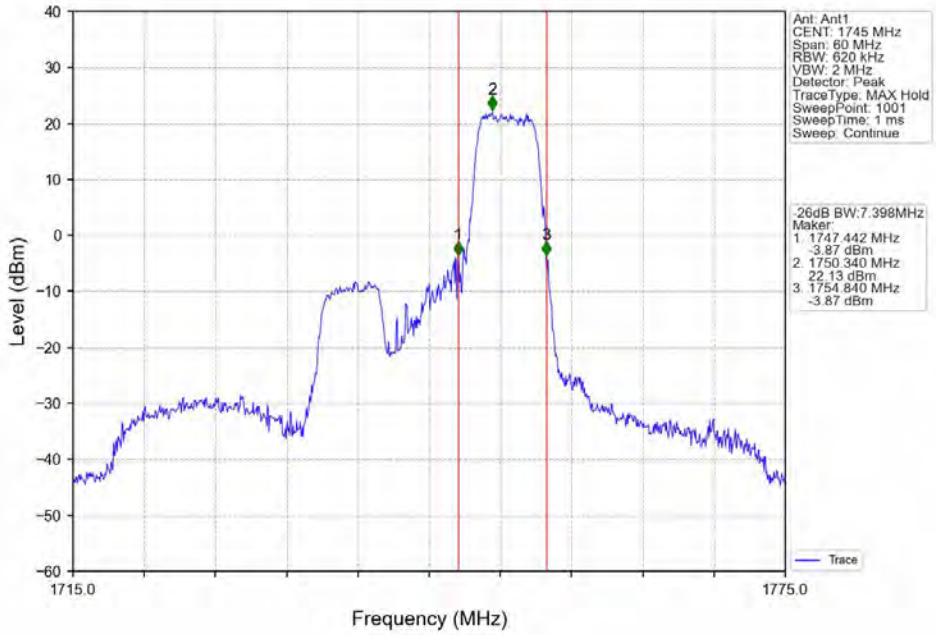

Band4_20MHz_16QAM_LCH_1720MHz_RB_27_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV




Band4_20MHz_16QAM_HCH_1745MHz_RB_27_73_NTNV



# 5. Peak-Average Ratio

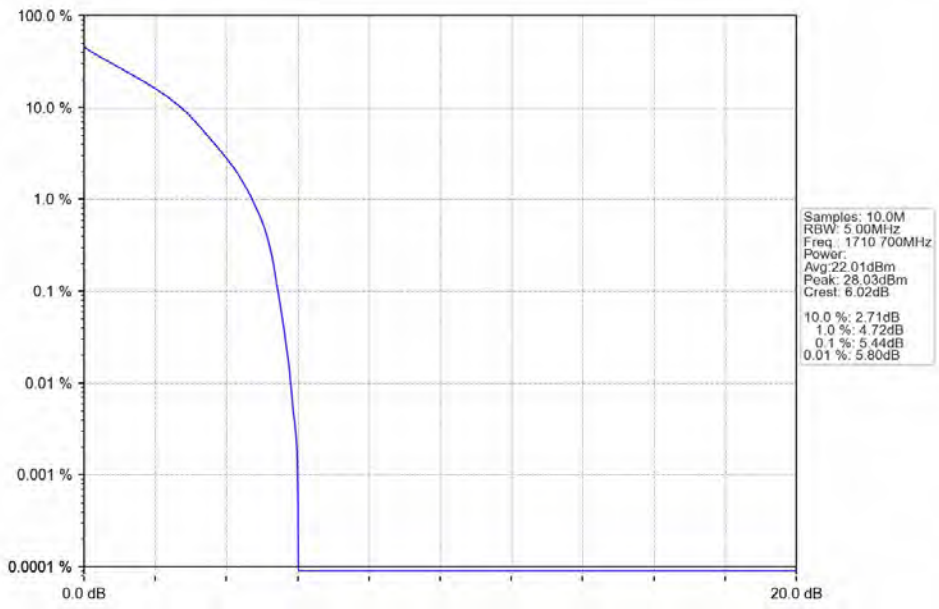
## 5.1 B4_1.4MHz

### 5.1.1 Test Result

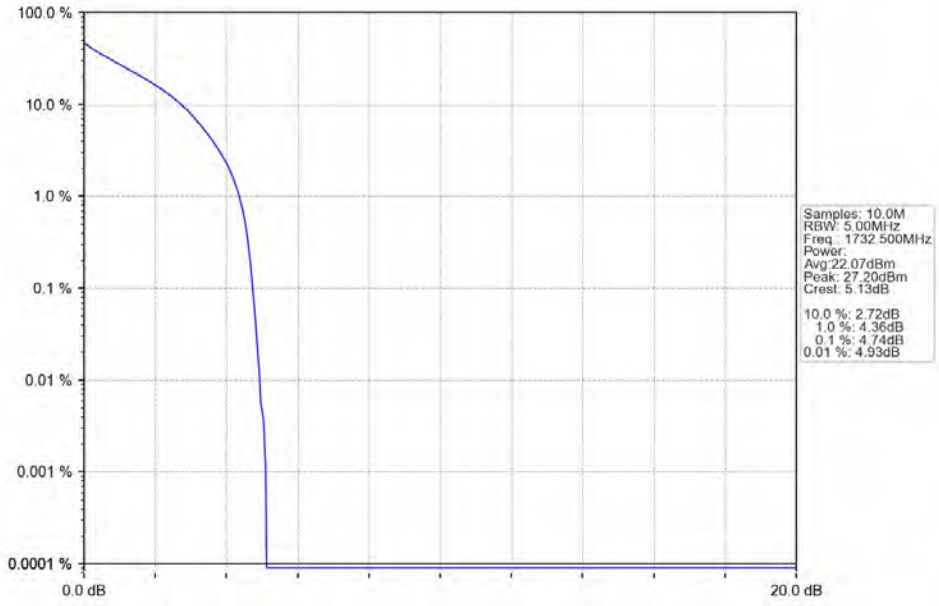
| Band: 4 / Bandwidth: 1.4MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1710.7 | 6 | 0 | 5.44 | <=13 | Pass |
| | 1732.5 | 6 | 0 | 4.74 | <=13 | Pass |
| | 1754.3 | 6 | 0 | 4.73 | <=13 | Pass |
| 16QAM | 1710.7 | 6 | 0 | 6.29 | <=13 | Pass |
| | 1732.5 | 6 | 0 | 5.59 | <=13 | Pass |
| | 1754.3 | 6 | 0 | 5.68 | <=13 | Pass |

## 5.1.2 Test Graph

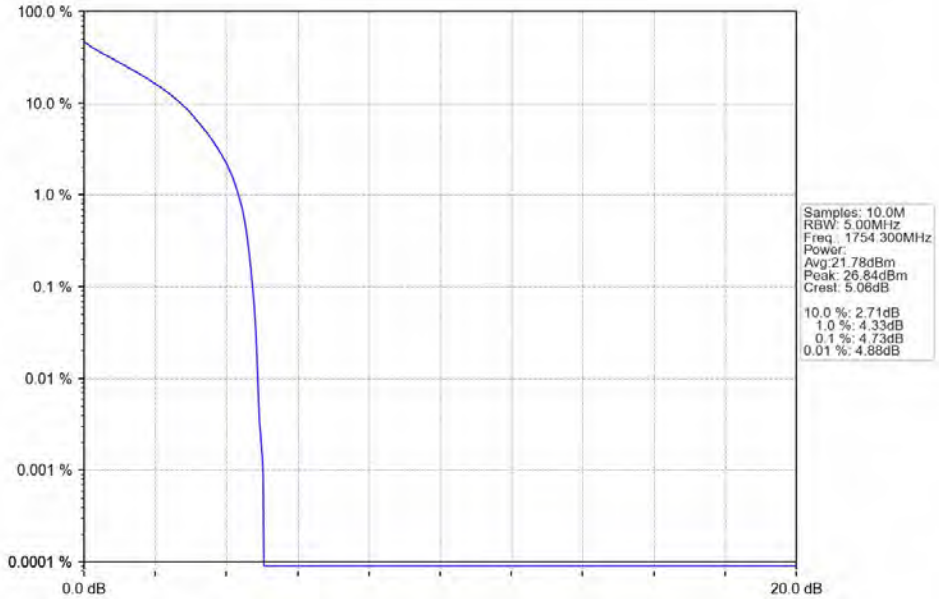
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



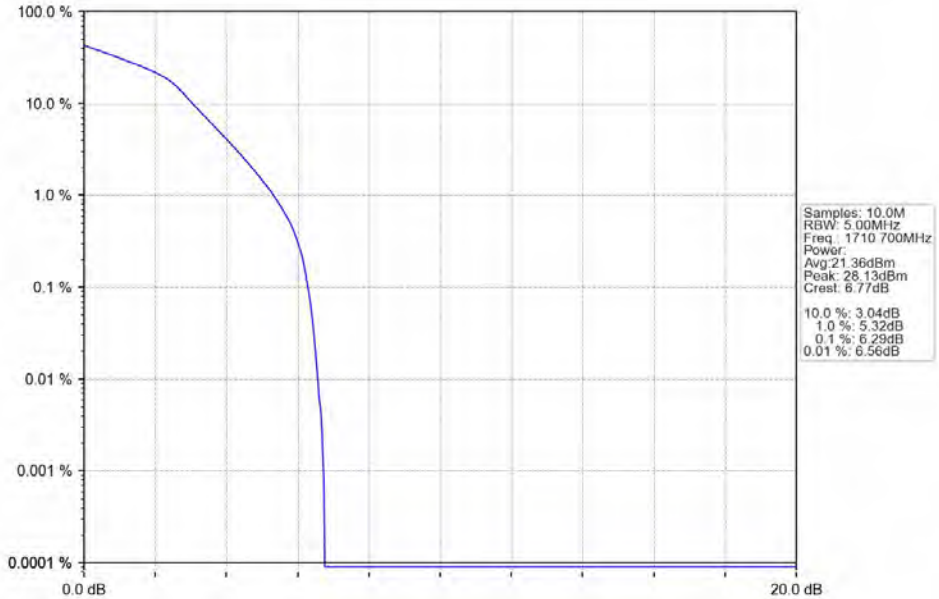

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



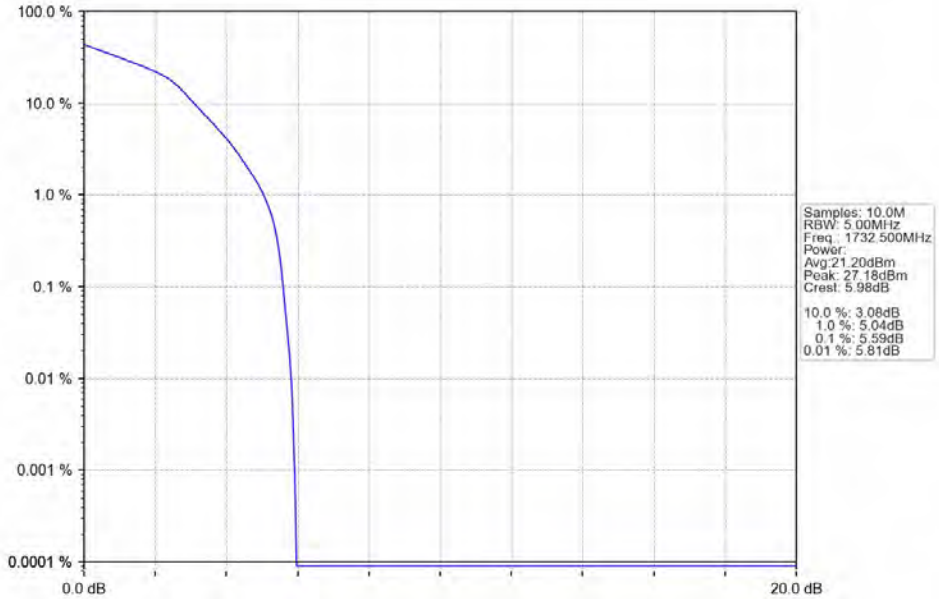
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



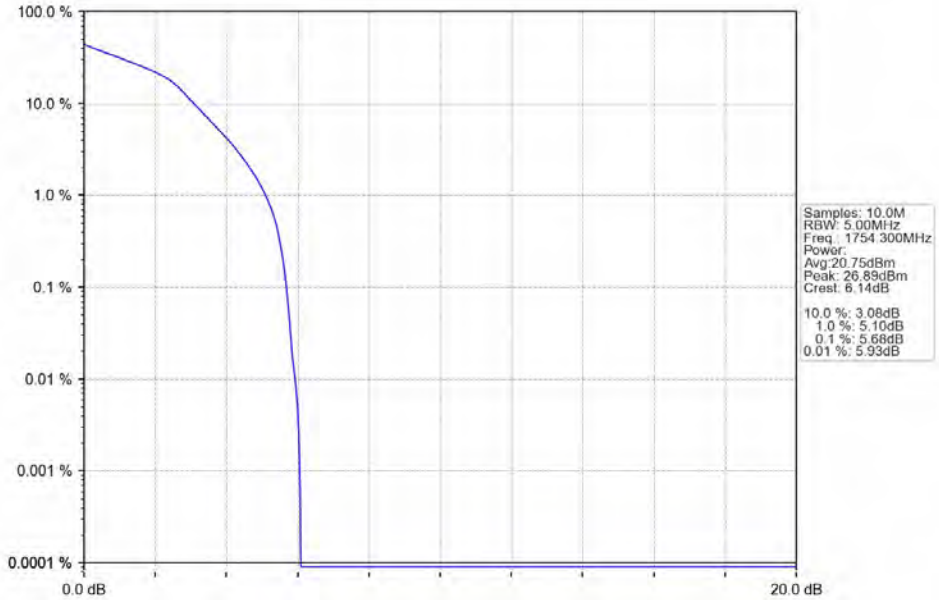

Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV




Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



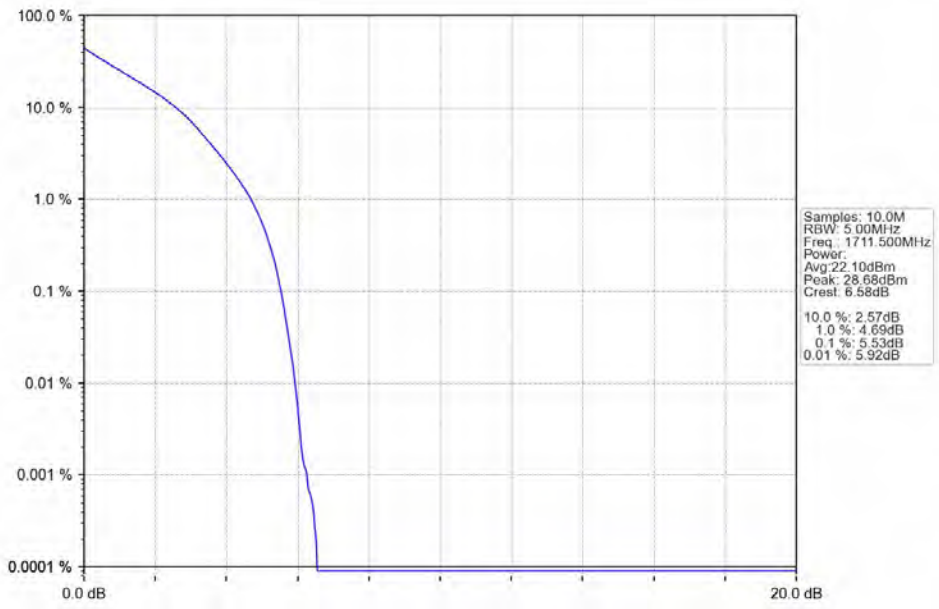
## 5.2 B4_3MHz

### 5.2.1 Test Result

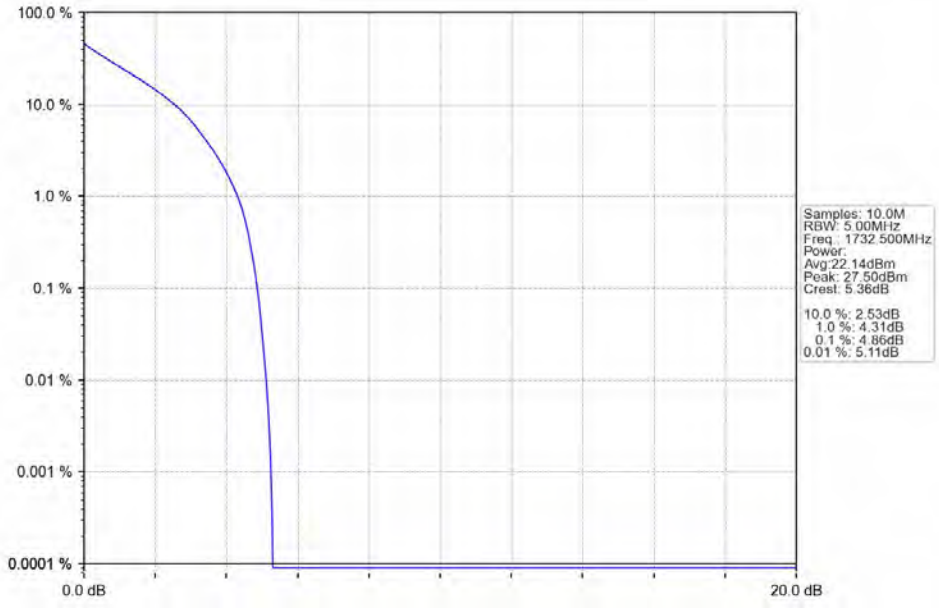
| Band: 4 / Bandwidth: 3MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1711.5 | 15 | 0 | 5.53 | <=13 | Pass |
| | 1732.5 | 15 | 0 | 4.86 | <=13 | Pass |
| | 1753.5 | 15 | 0 | 5.04 | <=13 | Pass |
| 16QAM | 1711.5 | 15 | 0 | 6.42 | <=13 | Pass |
| | 1732.5 | 15 | 0 | 5.81 | <=13 | Pass |
| | 1753.5 | 15 | 0 | 5.91 | <=13 | Pass |

## 5.2.2 Test Graph

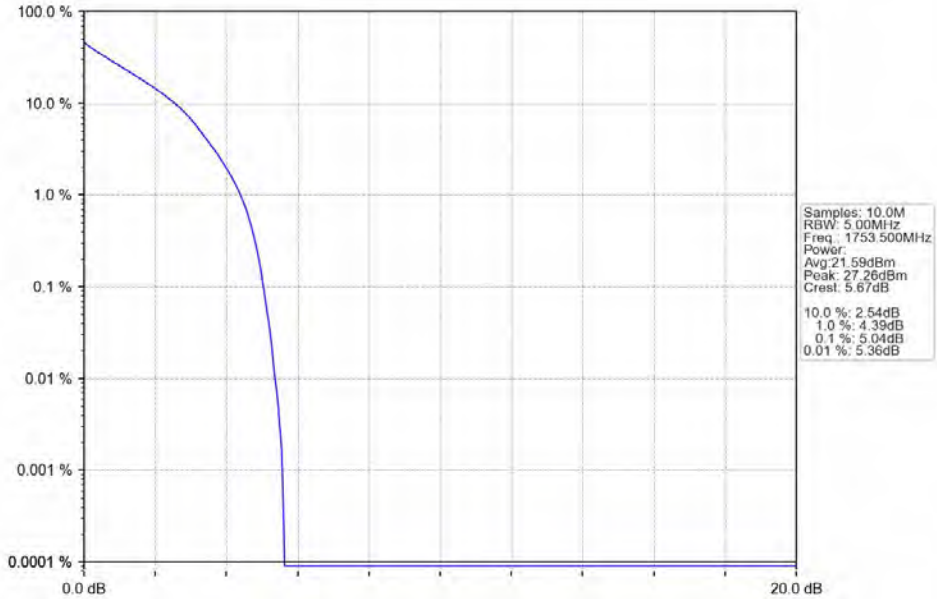
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



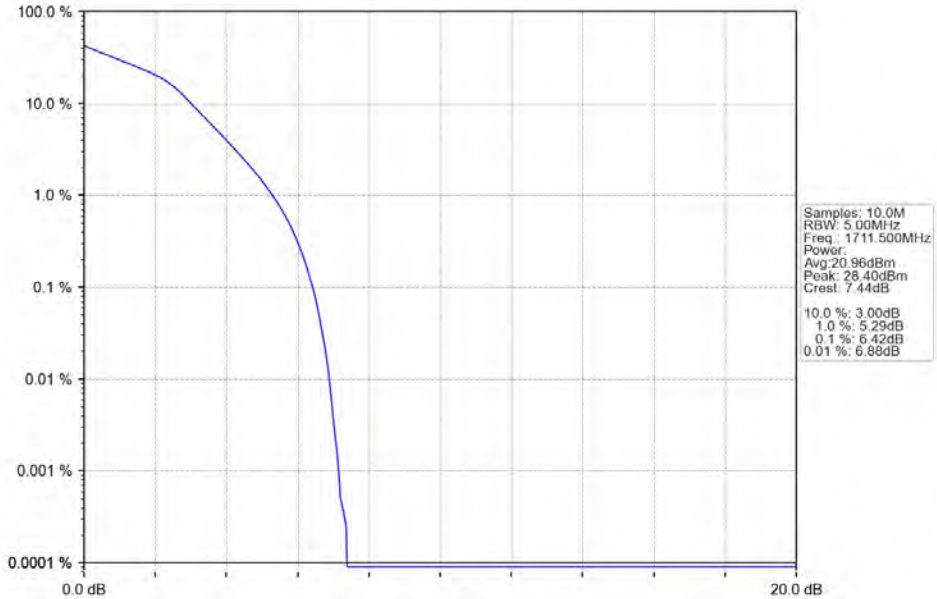

Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



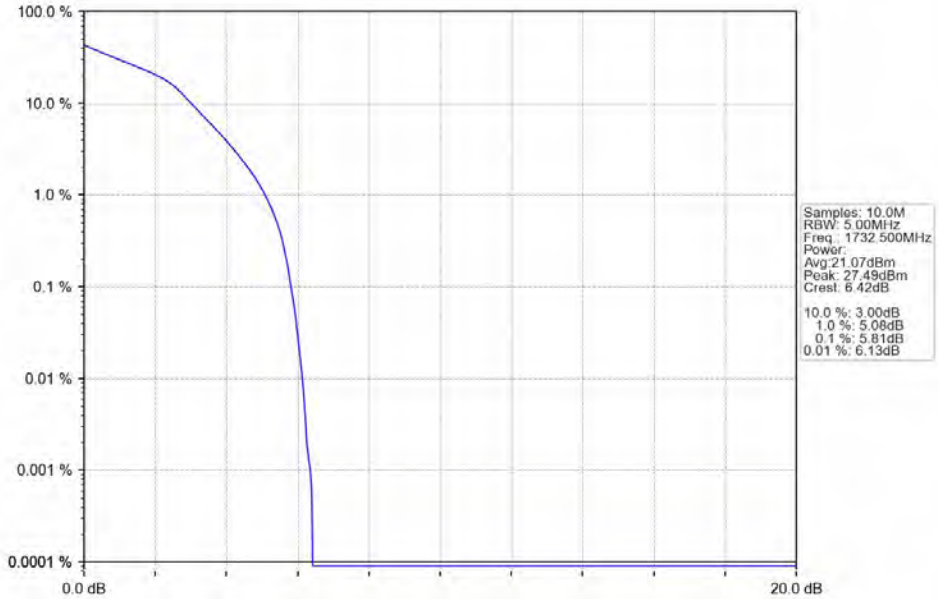
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



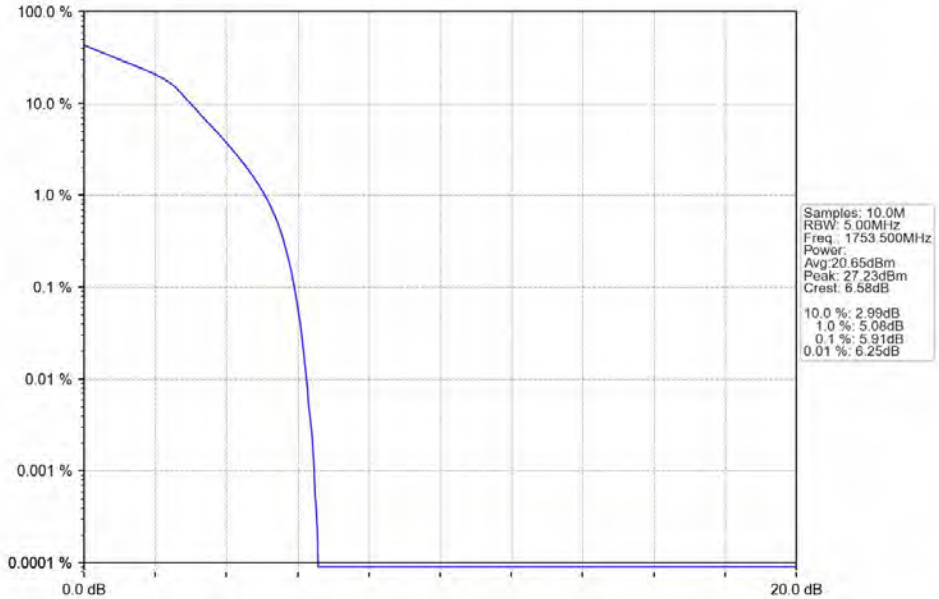

Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV




Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



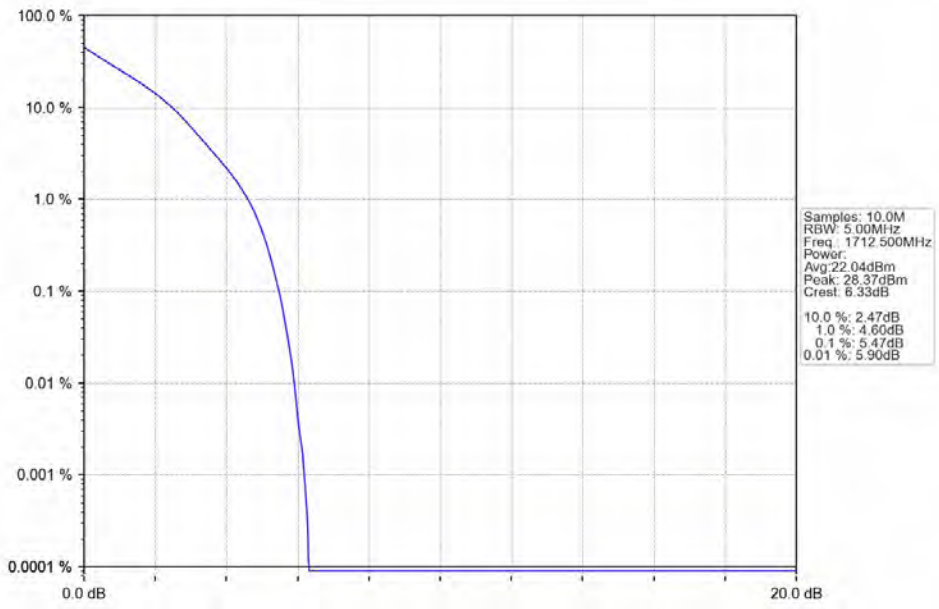
## 5.3 B4_5MHz

### 5.3.1 Test Result

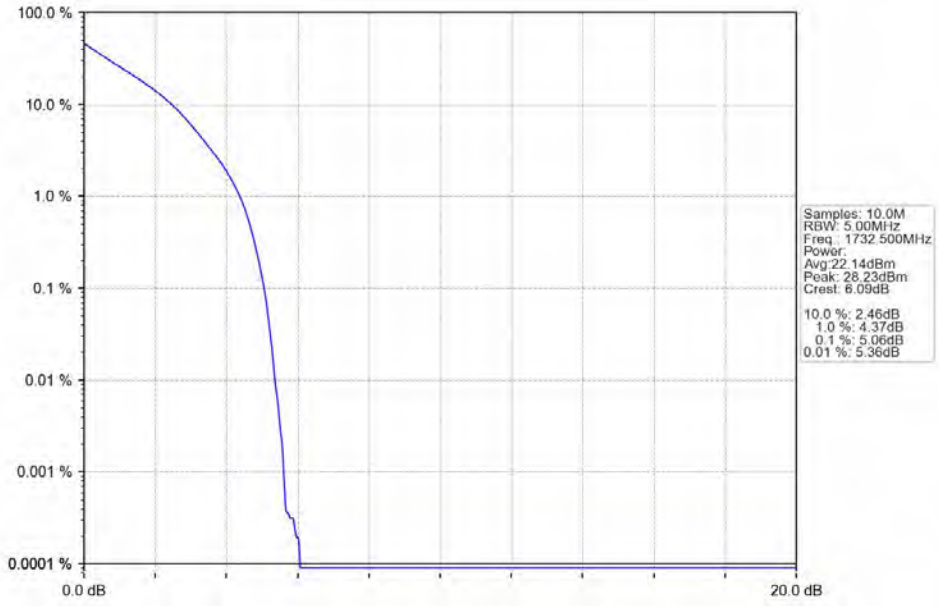
| Band: 4 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1712.5 | 25 | 0 | 5.47 | <=13 | Pass |
| | 1732.5 | 25 | 0 | 5.06 | <=13 | Pass |
| | 1752.5 | 25 | 0 | 5.16 | <=13 | Pass |
| 16QAM | 1712.5 | 25 | 0 | 6.31 | <=13 | Pass |
| | 1732.5 | 25 | 0 | 5.94 | <=13 | Pass |
| | 1752.5 | 25 | 0 | 6.00 | <=13 | Pass |

## 5.3.2 Test Graph

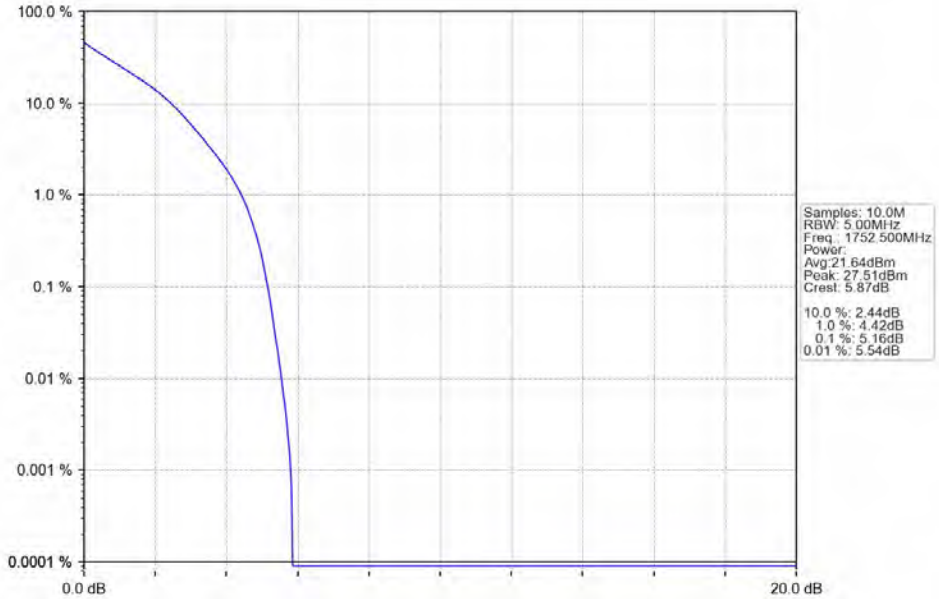
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



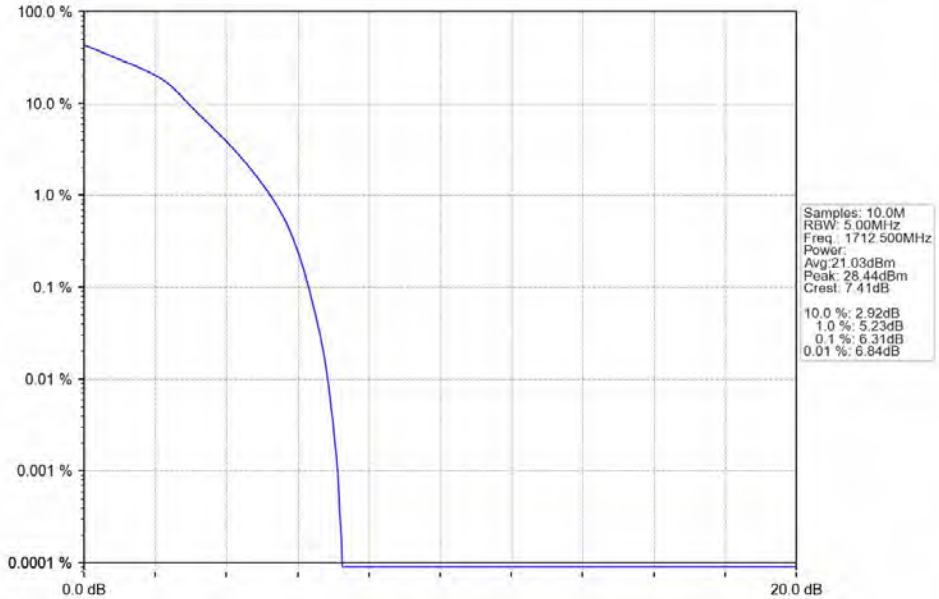

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



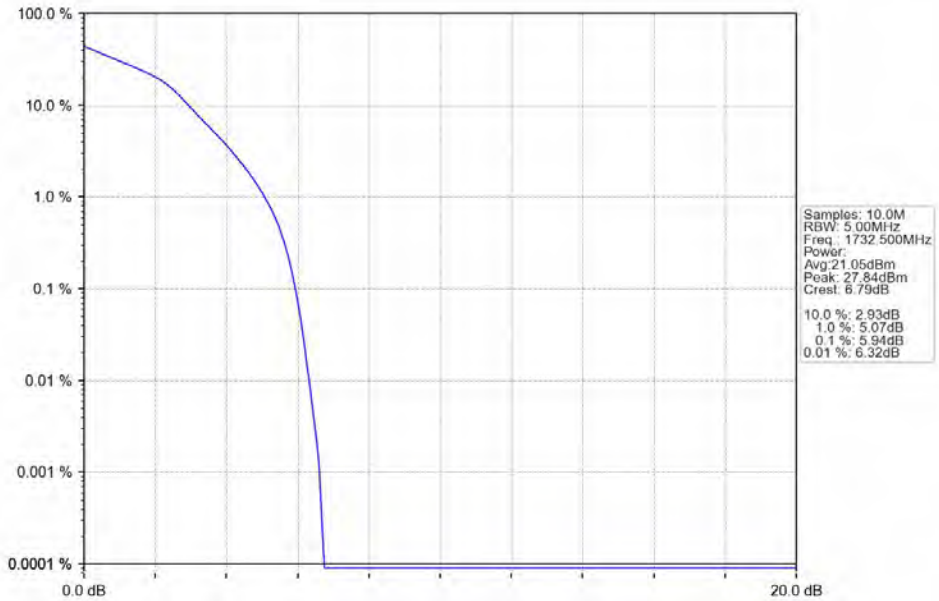
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



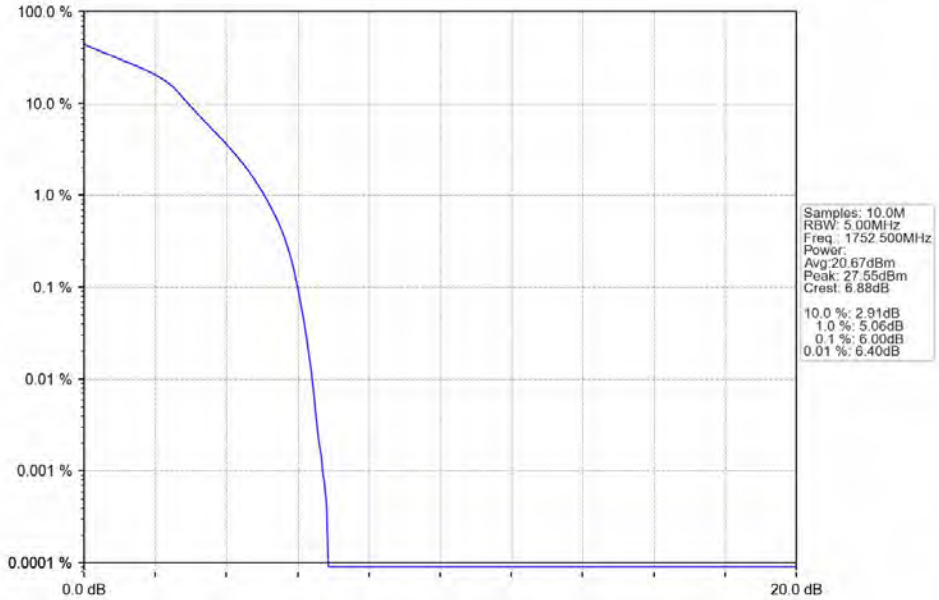

Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV




Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



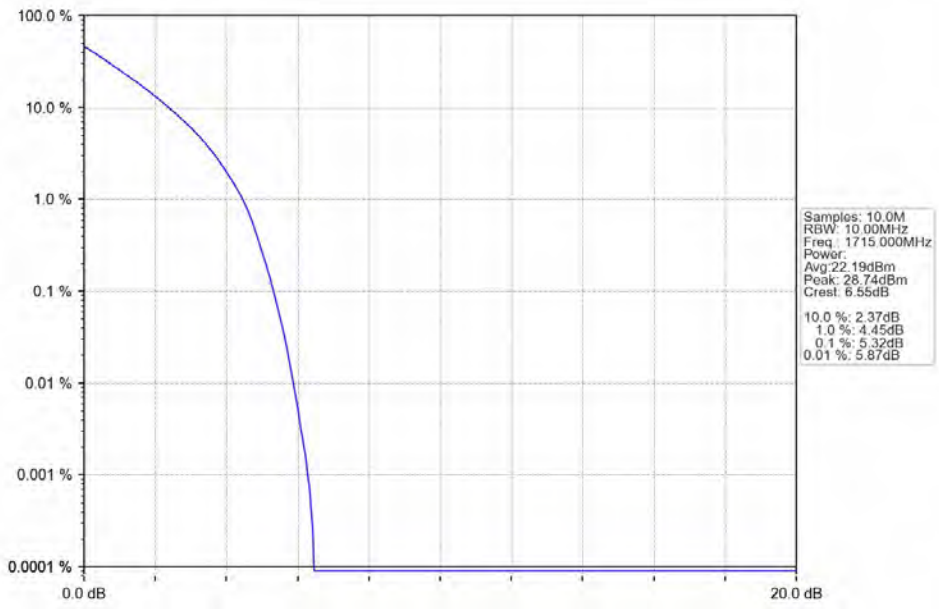
## 5.4 B4_10MHz

### 5.4.1 Test Result

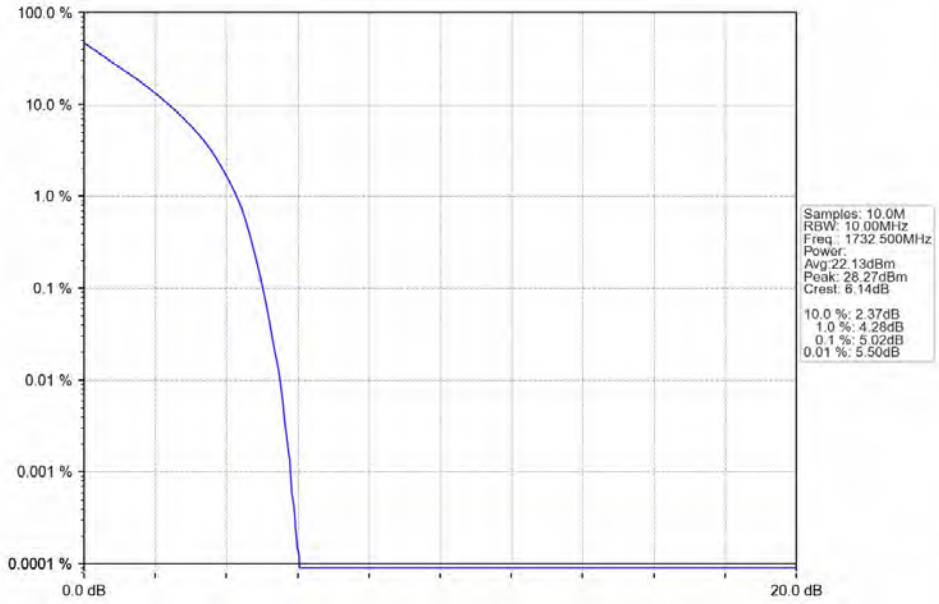
| Band: 4 / Bandwidth: 10MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1715 | 50 | 0 | 5.32 | <=13 | Pass |
| | 1732.5 | 50 | 0 | 5.02 | <=13 | Pass |
| | 1750 | 50 | 0 | 5.16 | <=13 | Pass |
| 16QAM | 1715 | 27 | 0 | 6.10 | <=13 | Pass |
| | 1732.5 | 27 | 0 | 5.60 | <=13 | Pass |
| | 1750 | 27 | 23 | 5.81 | <=13 | Pass |

## 5.4.2 Test Graph

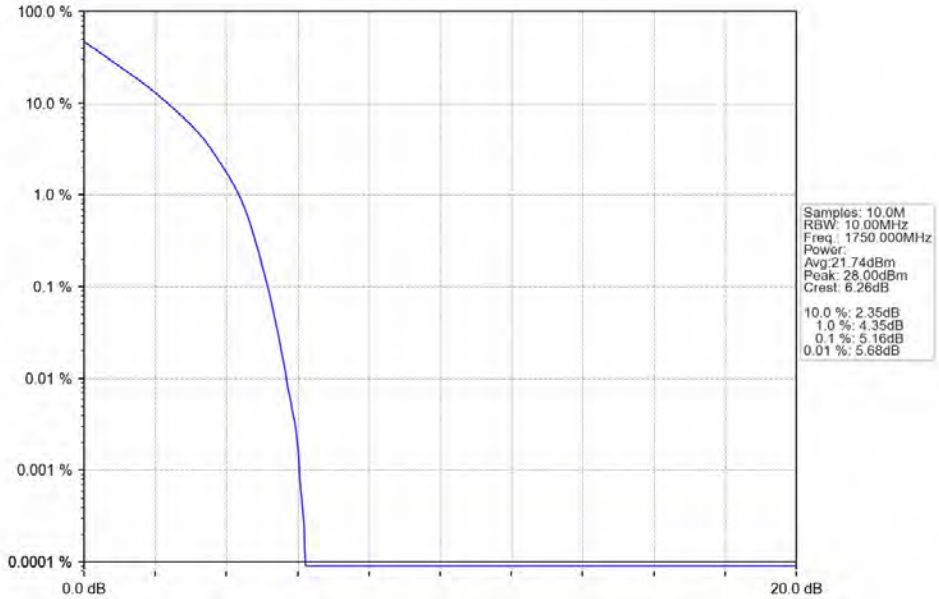
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



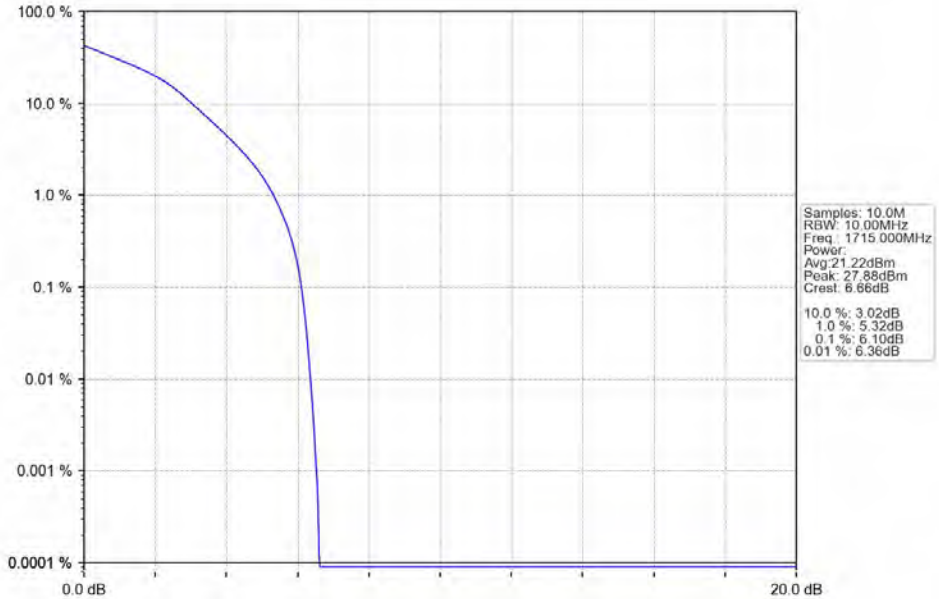

Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



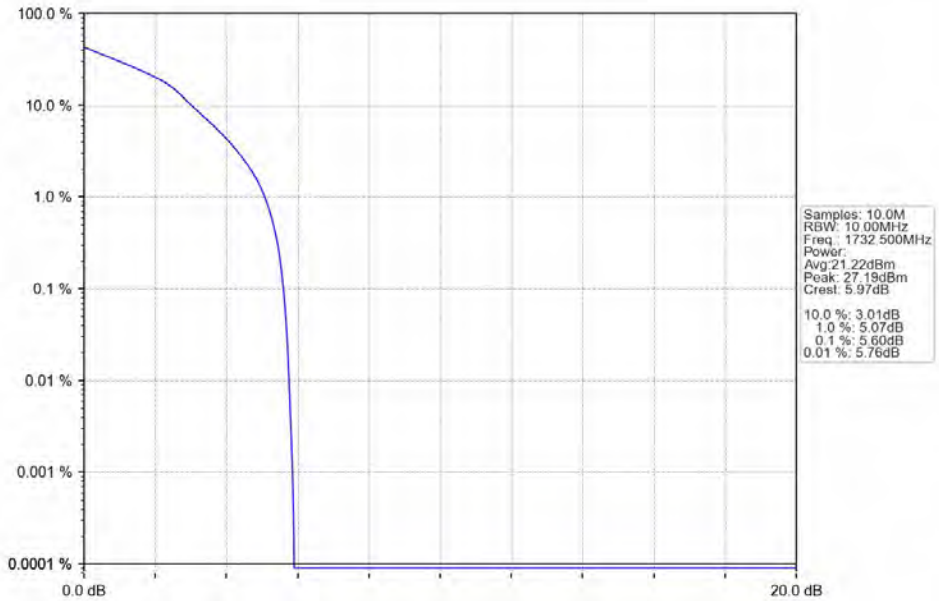
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



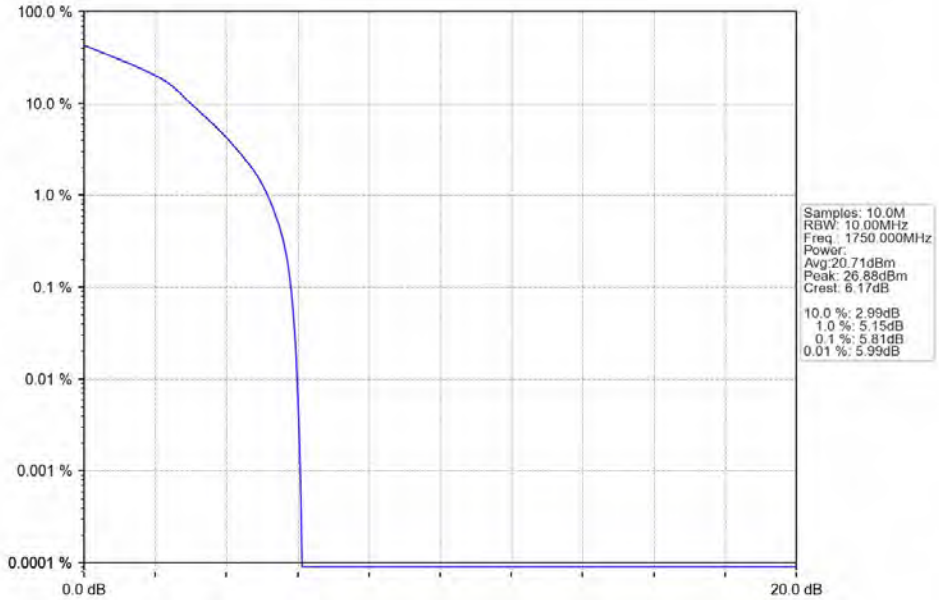

Band4_10MHz_16QAM_LCH_1715MHz_RB_27_0_NTNV



Band4_10MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV




Band4_10MHz_16QAM_HCH_1750MHz_RB_27_23_NTNV



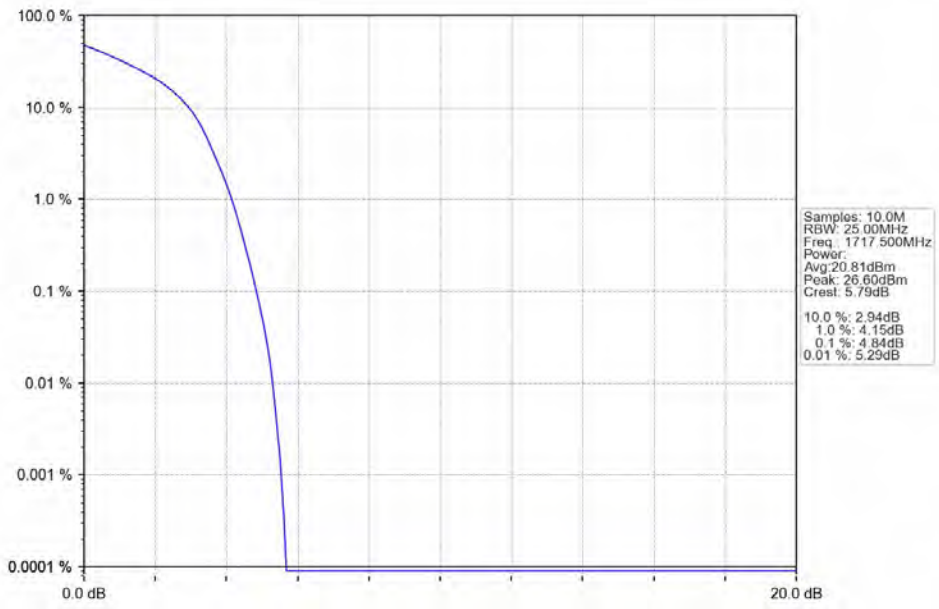
## 5.5 B4_15MHz

### 5.5.1 Test Result

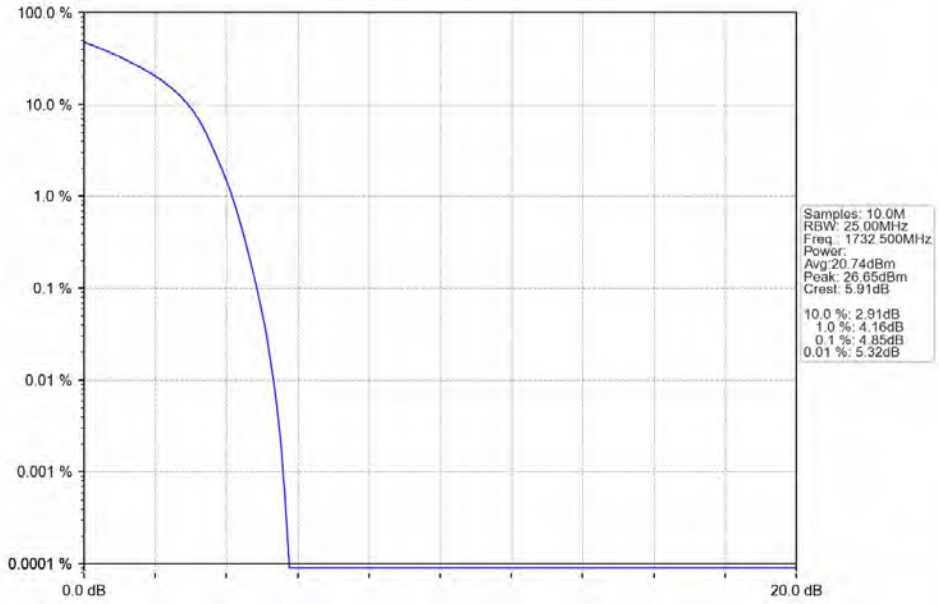
| Band: 4 / Bandwidth: 15MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1717.5 | 75 | 0 | 4.84 | <=13 | Pass |
| | 1732.5 | 75 | 0 | 4.85 | <=13 | Pass |
| | 1747.5 | 75 | 0 | 4.97 | <=13 | Pass |
| 16QAM | 1717.5 | 27 | 0 | 6.56 | <=13 | Pass |
| | 1732.5 | 27 | 0 | 6.40 | <=13 | Pass |
| | 1747.5 | 27 | 48 | 6.64 | <=13 | Pass |

## 5.5.2 Test Graph

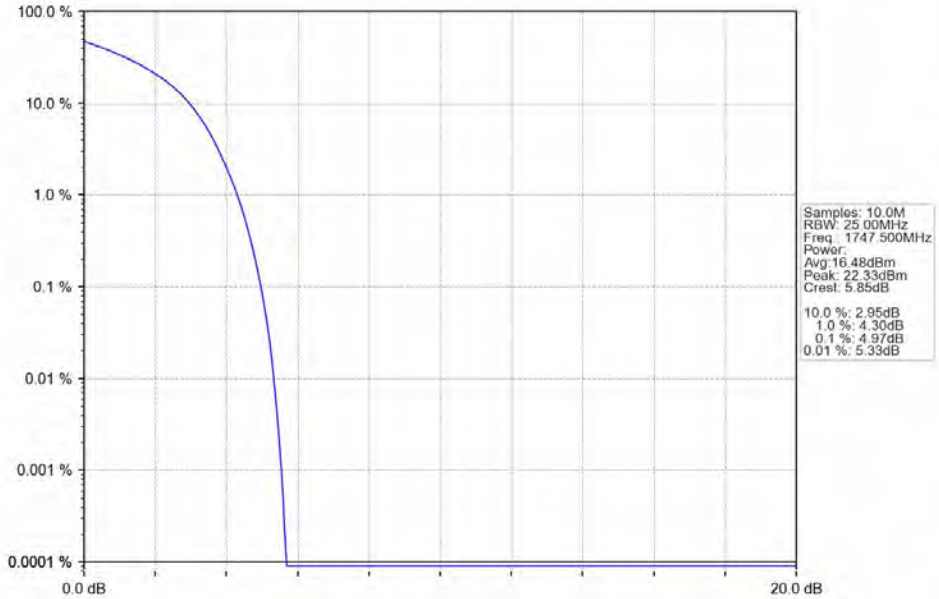
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



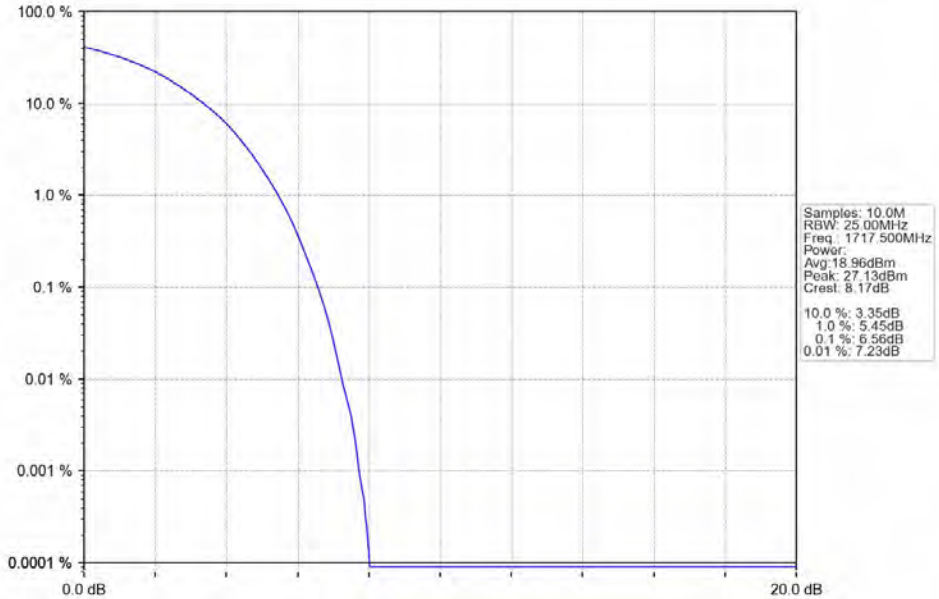

Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



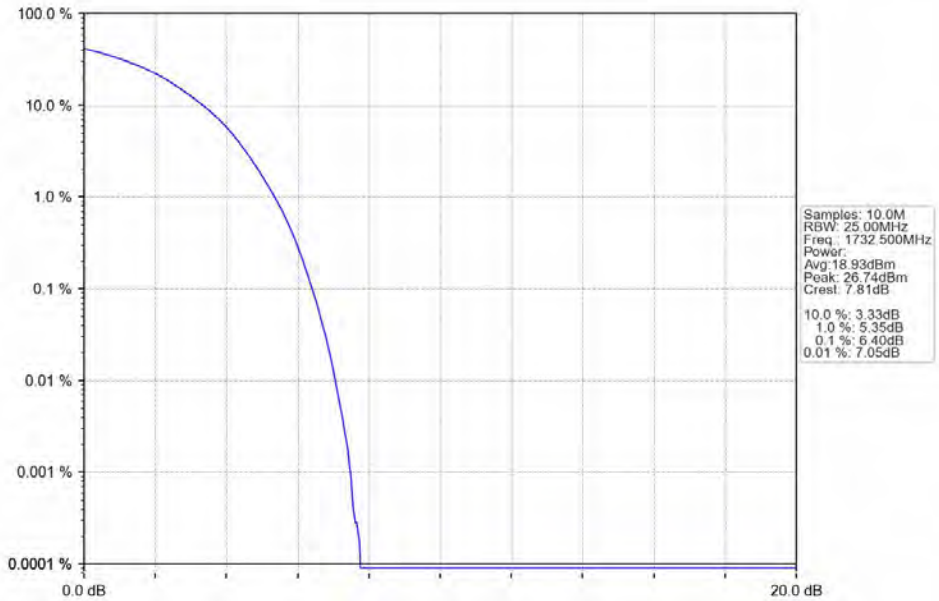
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



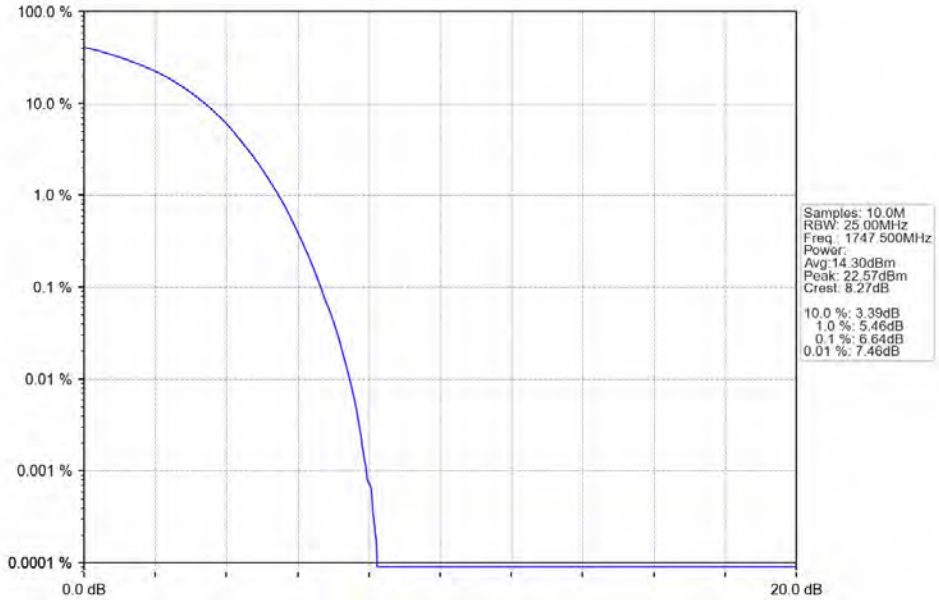

Band4_15MHz_16QAM_LCH_1717.5MHz_RB_27_0_NTNV



Band4_15MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV




Band4_15MHz_16QAM_HCH_1747.5MHz_RB_27_48_NTNV



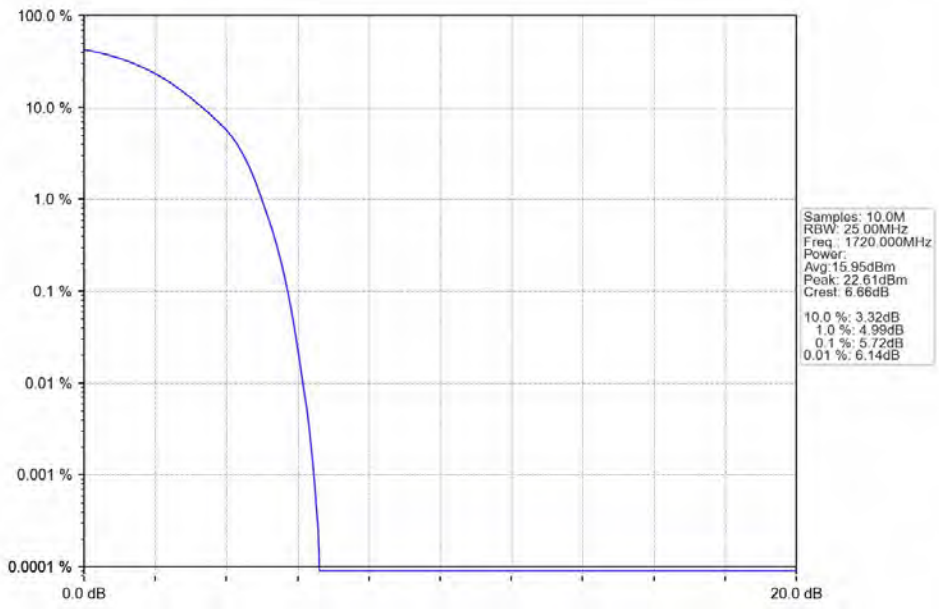
## 5.6 B4_20MHz

### 5.6.1 Test Result

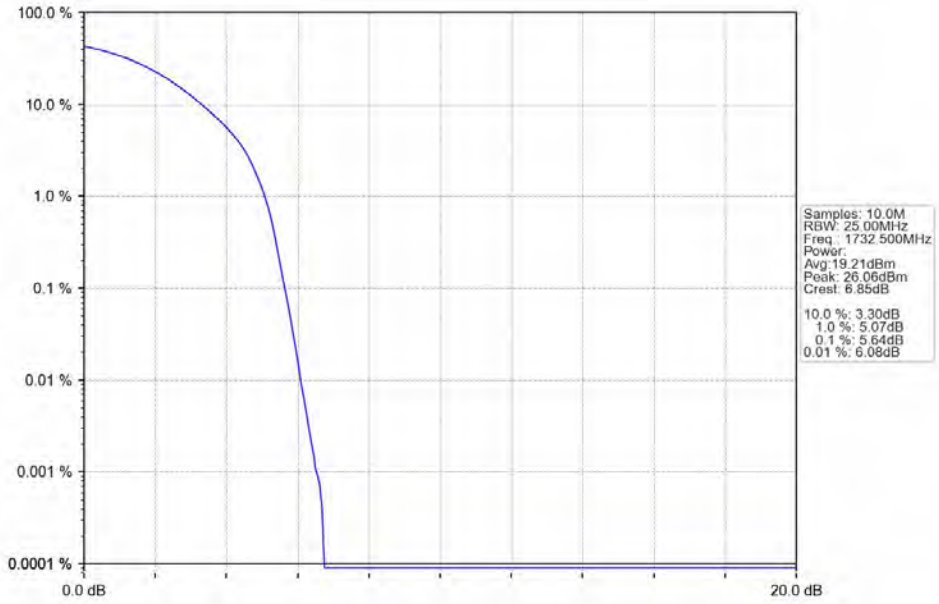
| Band: 4 / Bandwidth: 20MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Peak-Average Ratio (dB) | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1720 | 100 | 0 | 5.72 | <=13 | Pass |
| | 1732.5 | 100 | 0 | 5.64 | <=13 | Pass |
| | 1745 | 100 | 0 | 5.76 | <=13 | Pass |
| 16QAM | 1720 | 27 | 0 | 7.82 | <=13 | Pass |
| | 1732.5 | 27 | 0 | 7.70 | <=13 | Pass |
| | 1745 | 27 | 73 | 7.66 | <=13 | Pass |

## 5.6.2 Test Graph

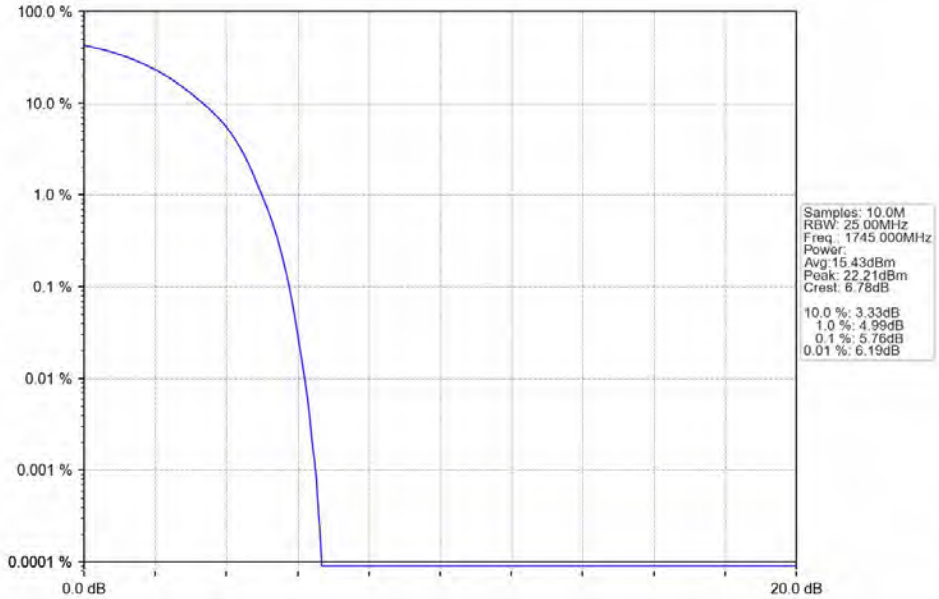
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



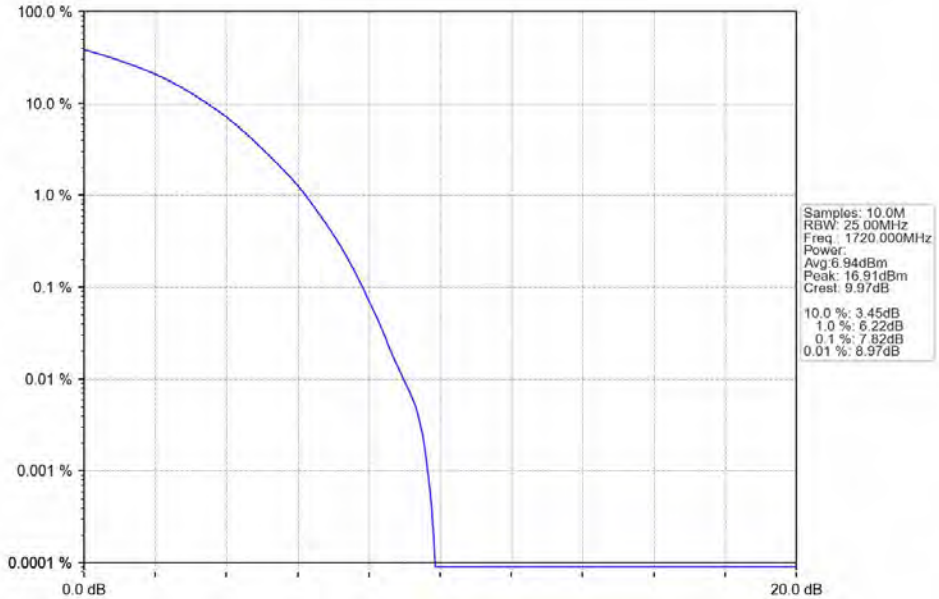

Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



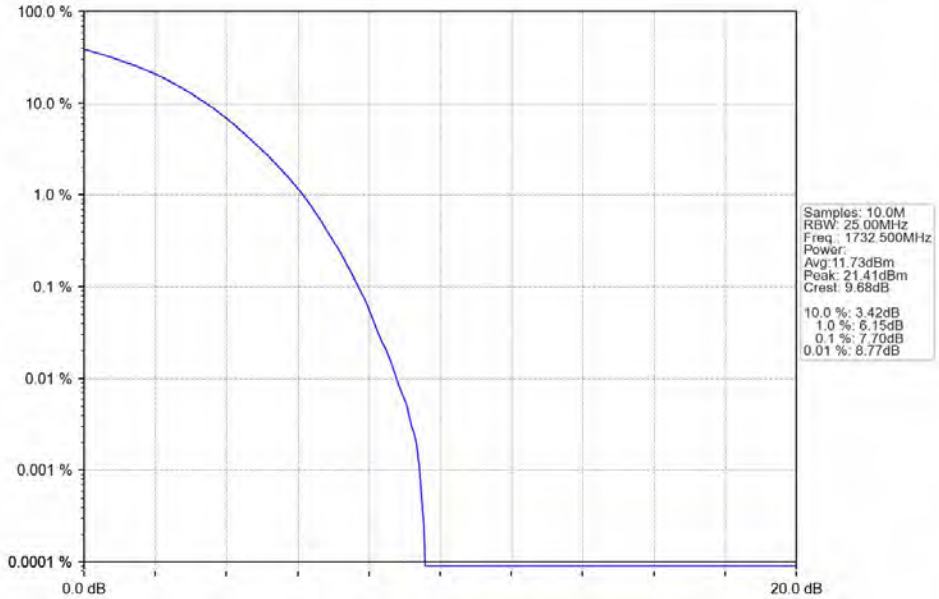
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



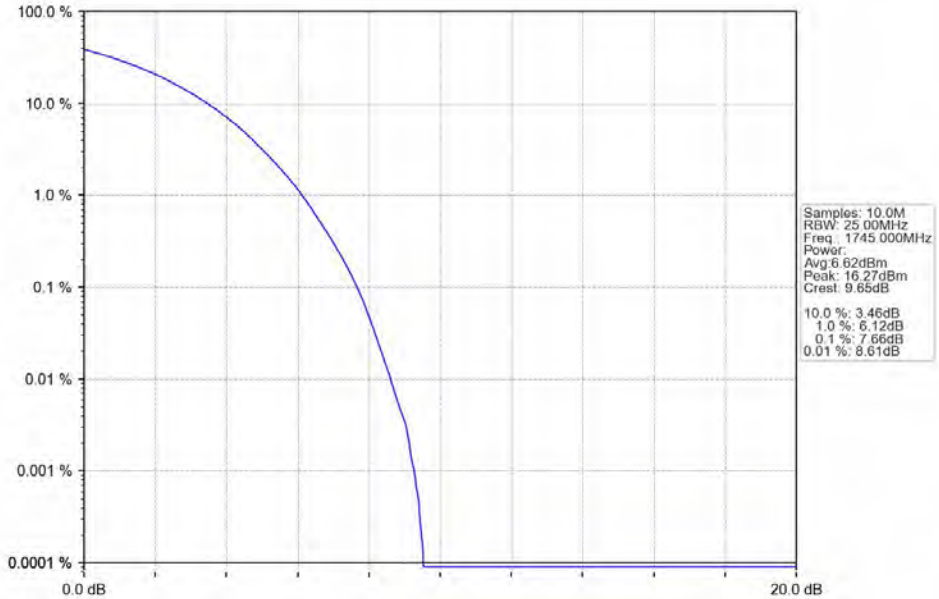

Band4_20MHz_16QAM_LCH_1720MHz_RB_27_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_27_0_NTNV




Band4_20MHz_16QAM_HCH_1745MHz_RB_27_73_NTNV



# 6. Spurious Emission

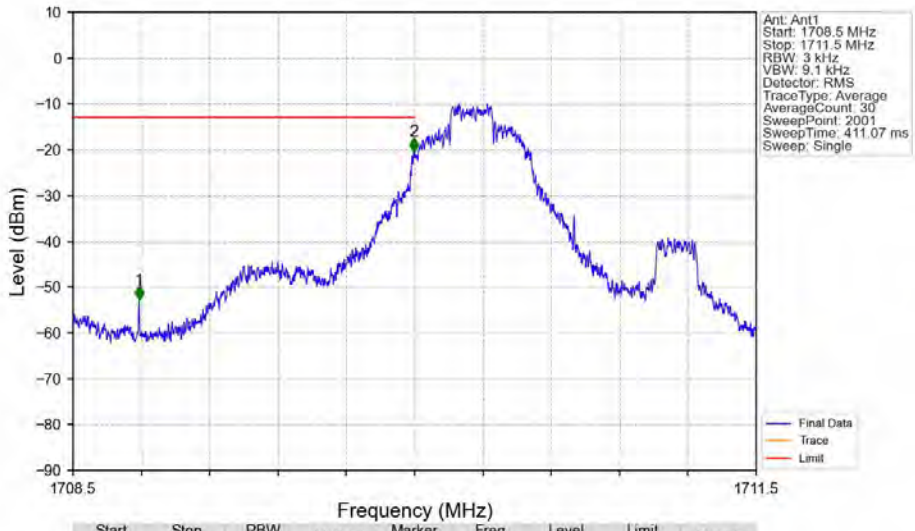
## 6.1 B4_1.4MHz

### 6.1.1 Test Result

| Band: 4 / Bandwidth: 1.4MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1710.7 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1754.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 5 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1710.7 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1754.3 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 5 | Refer To Test Graph | | Pass |
| | | 6 | 0 | Refer To Test Graph | | Pass |

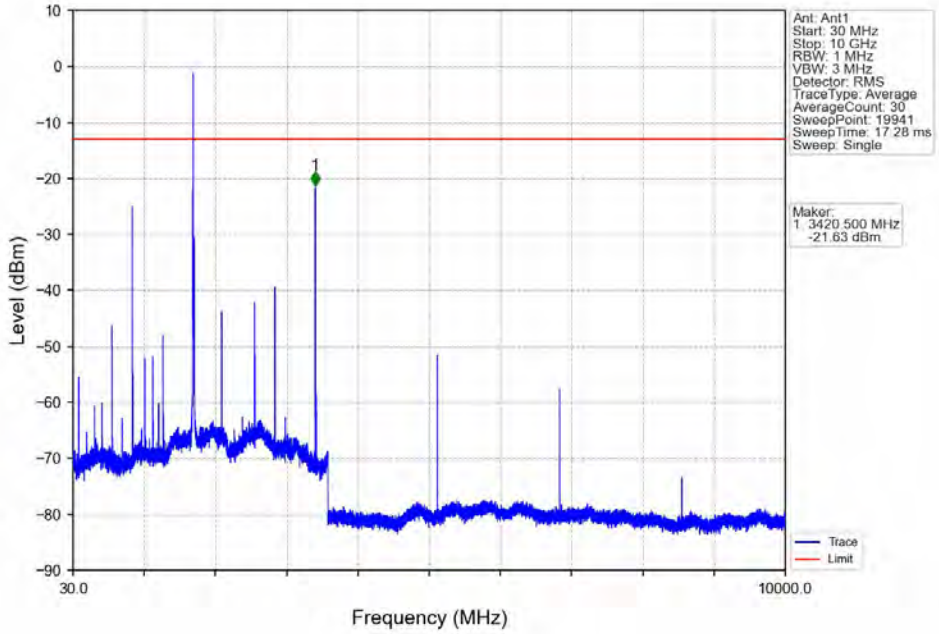
## 6.1.2 Test Graph

Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV

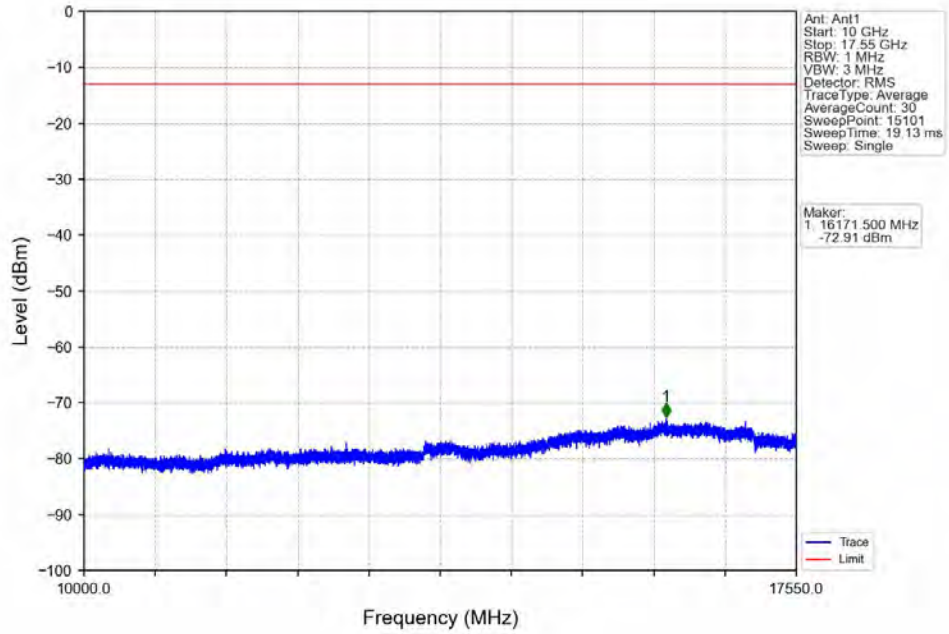



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1708.5 | 1709 | 1 | / | 1 | 1708.790 | -52.74 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.997 | -20.42 | -13 | Pass |
| 1710 | 1711.5 | 0.003 | / | / | / | / | / | / |

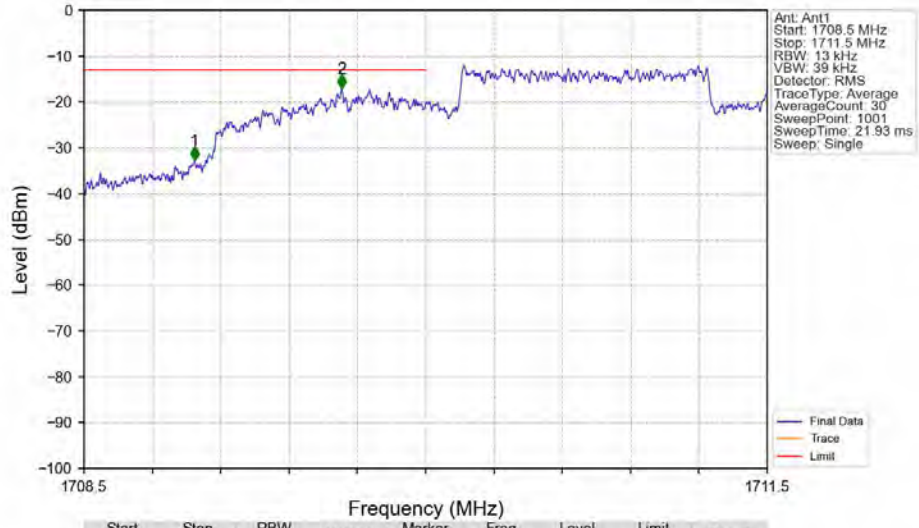
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV

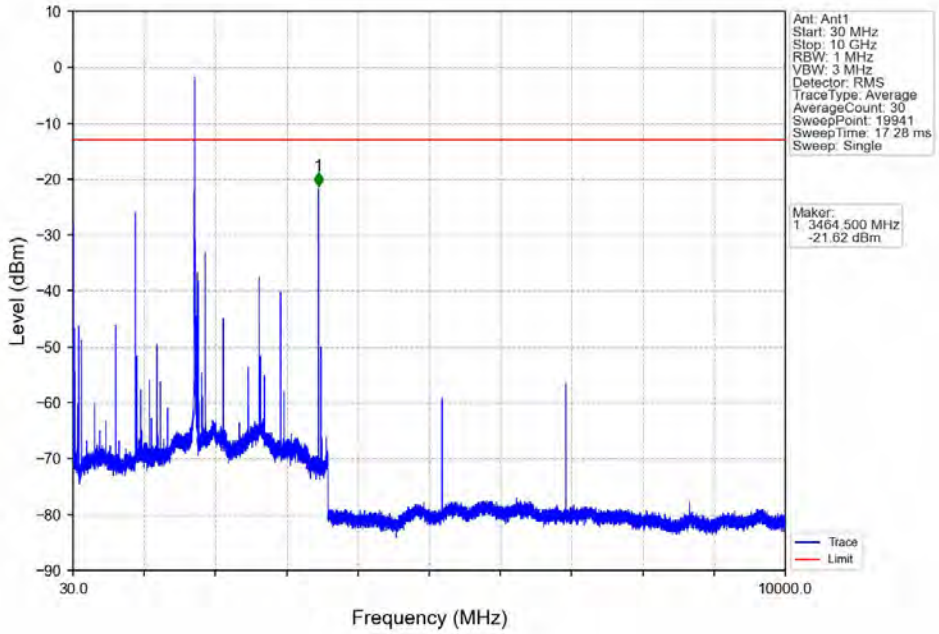



Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV

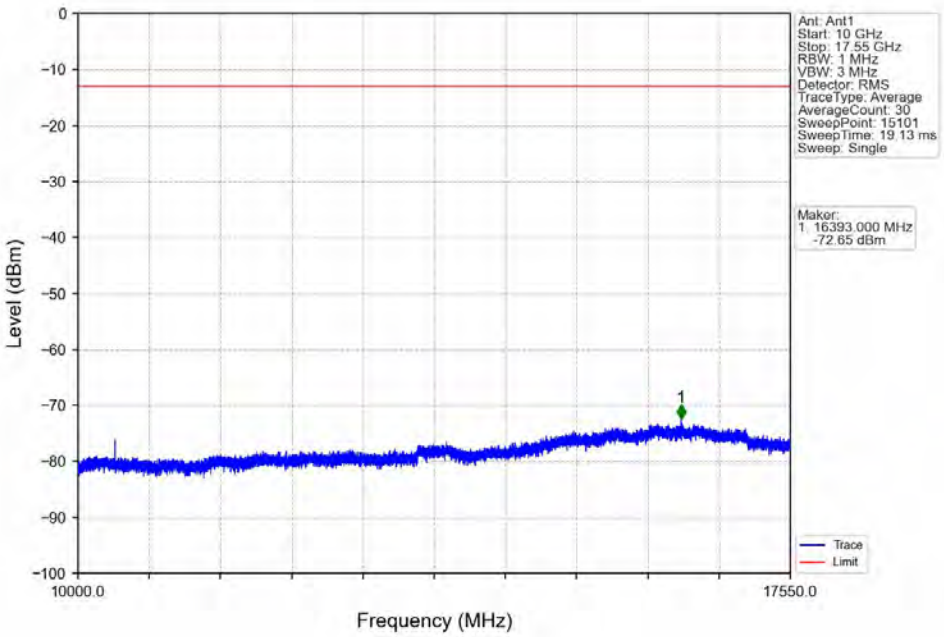



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1708.5 | 1709 | 1 | / | 1 | 1708.986 | -32.79 | -13 | Pass |
| 1709 | 1710 | 0.013 | / | 2 | 1709.631 | -17.06 | -13 | Pass |
| 1710 | 1711.5 | 0.013 | / | / | / | / | / | / |

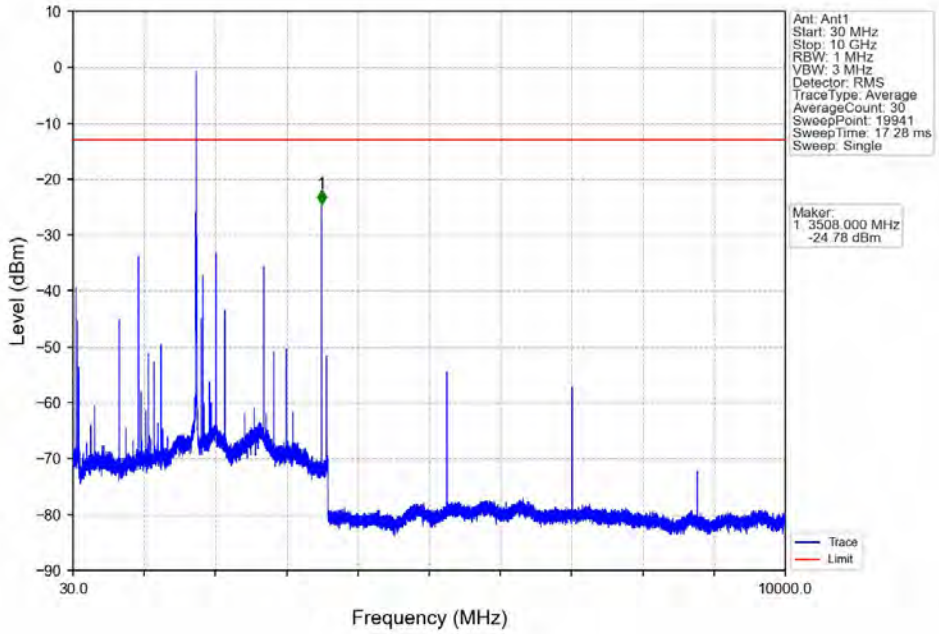
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



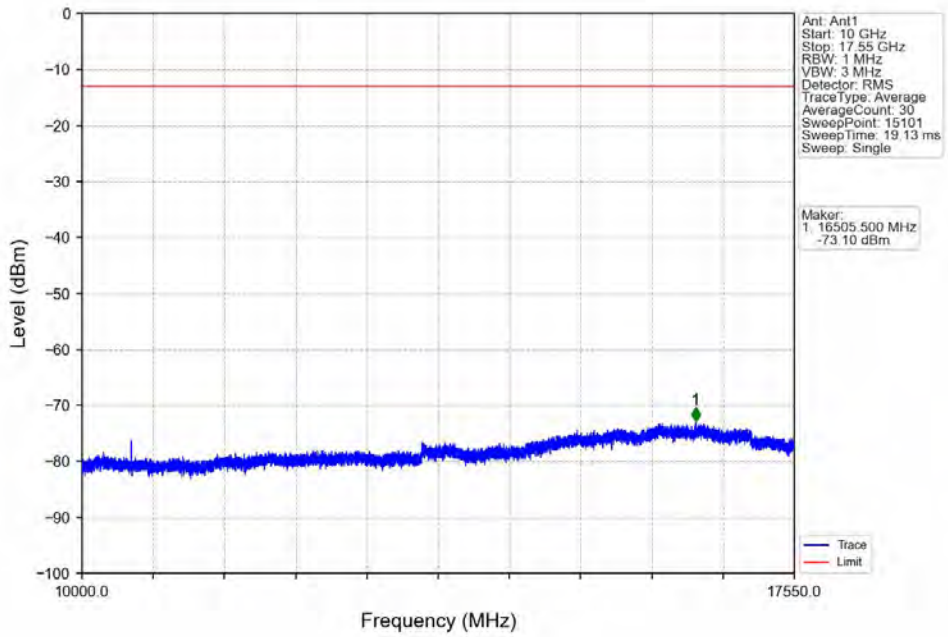

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



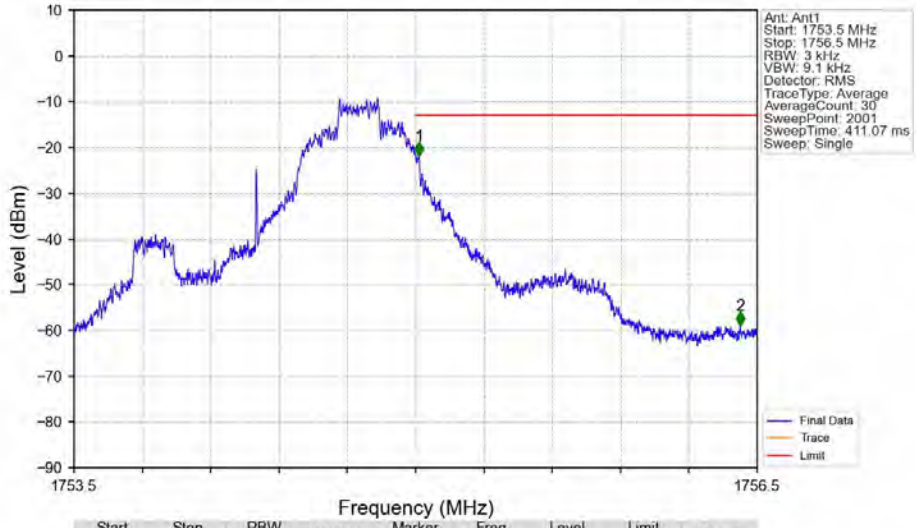
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV




Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV

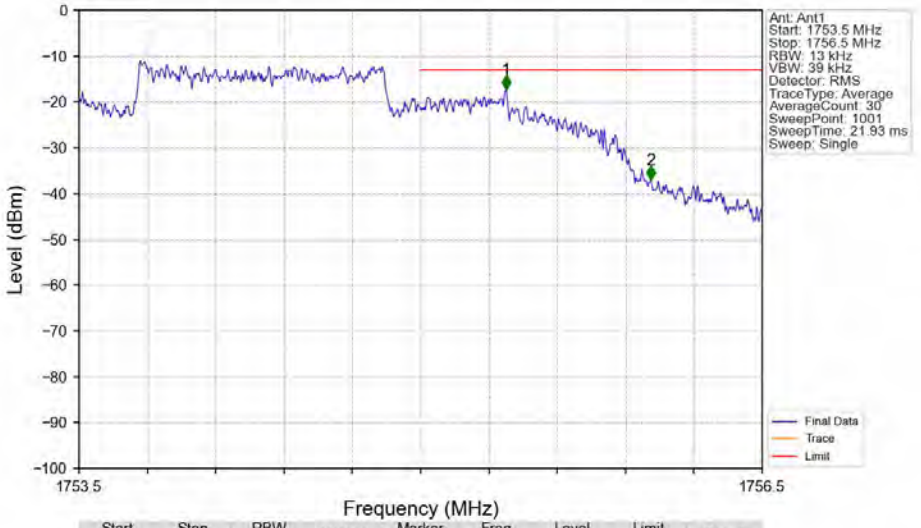


Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_5_NTNV



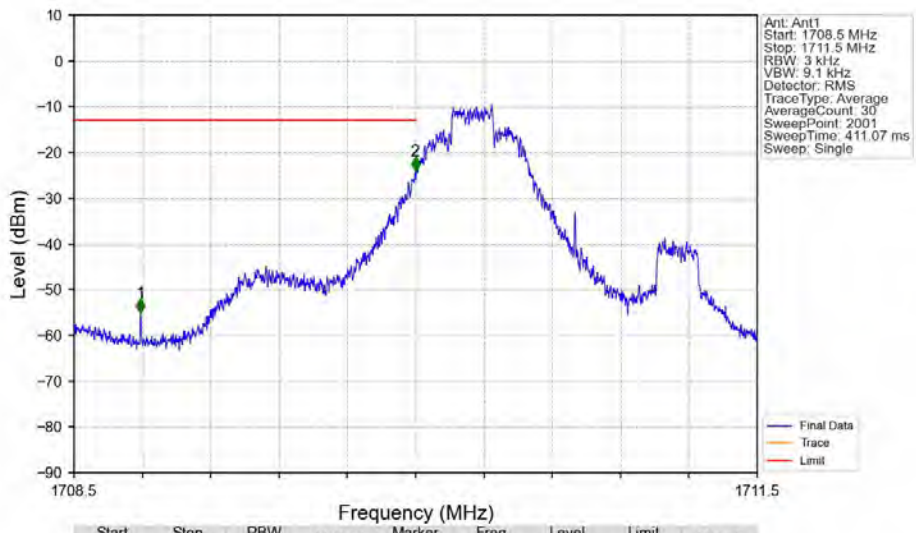

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1753.5 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.015 | -21.88 | -13 | Pass |
| 1756 | 1756.5 | 1 | / | 2 | 1756.427 | -58.93 | -13 | Pass |

Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



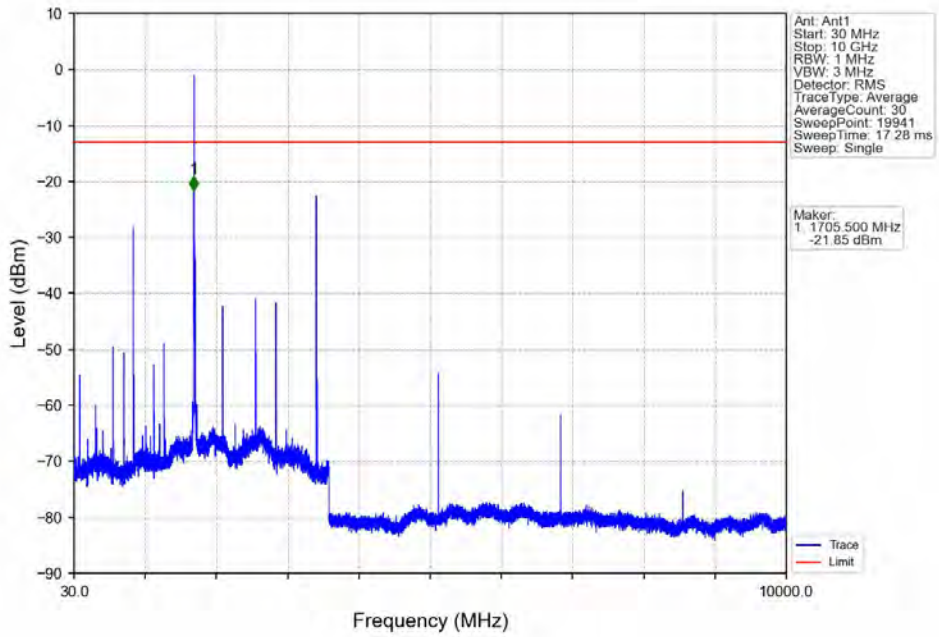

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1753.5 | 1755 | 0.013 | / | / | / | / | / | / |
| 1755 | 1756 | 0.013 | / | 1 | 1755.375 | -17.30 | -13 | Pass |
| 1756 | 1756.5 | 1 | / | 2 | 1756.011 | -37.03 | -13 | Pass |

Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV

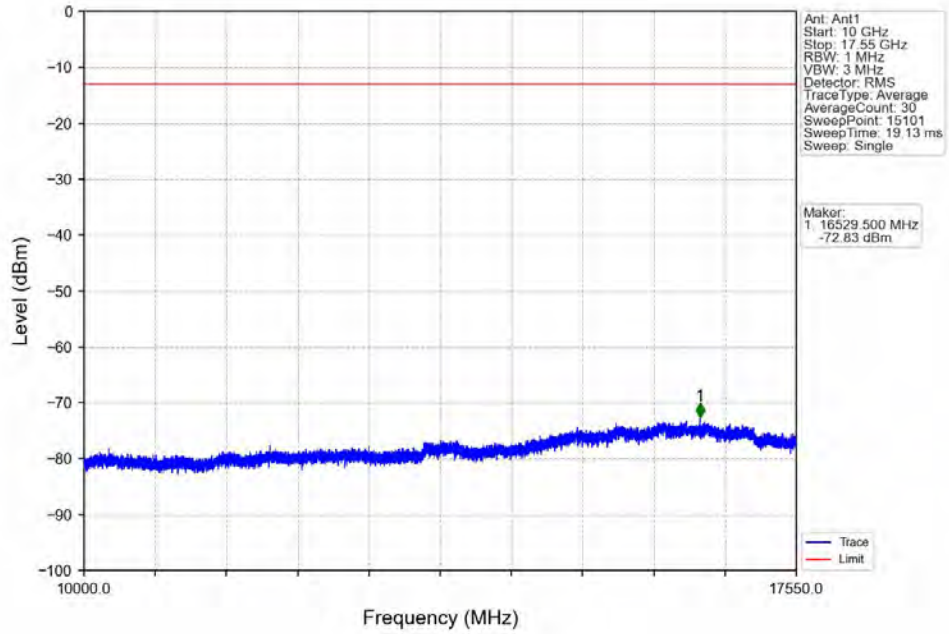



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1708.5 | 1709 | 1 | / | 1 | 1708.793 | -55.13 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.998 | -23.99 | -13 | Pass |
| 1710 | 1711.5 | 0.003 | / | / | / | / | / | / |

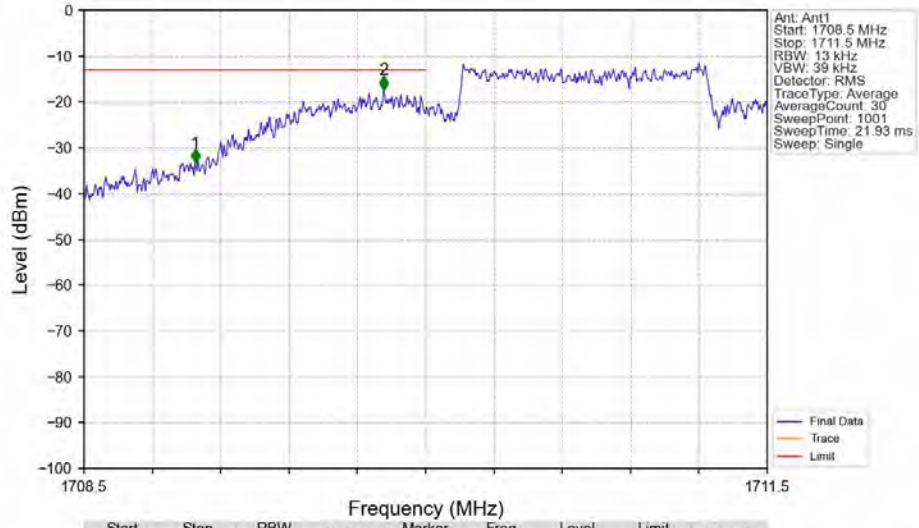
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV

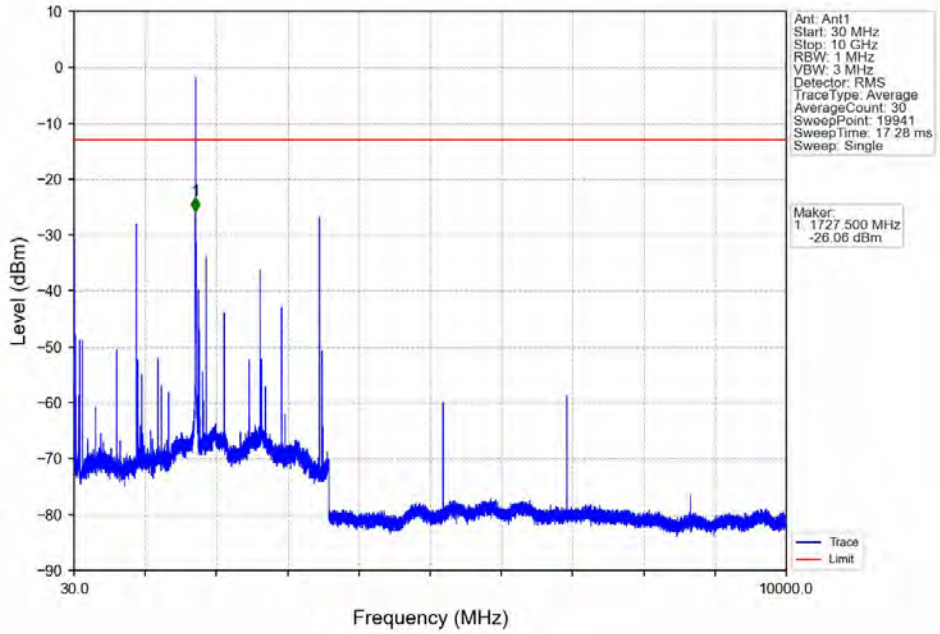



Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV

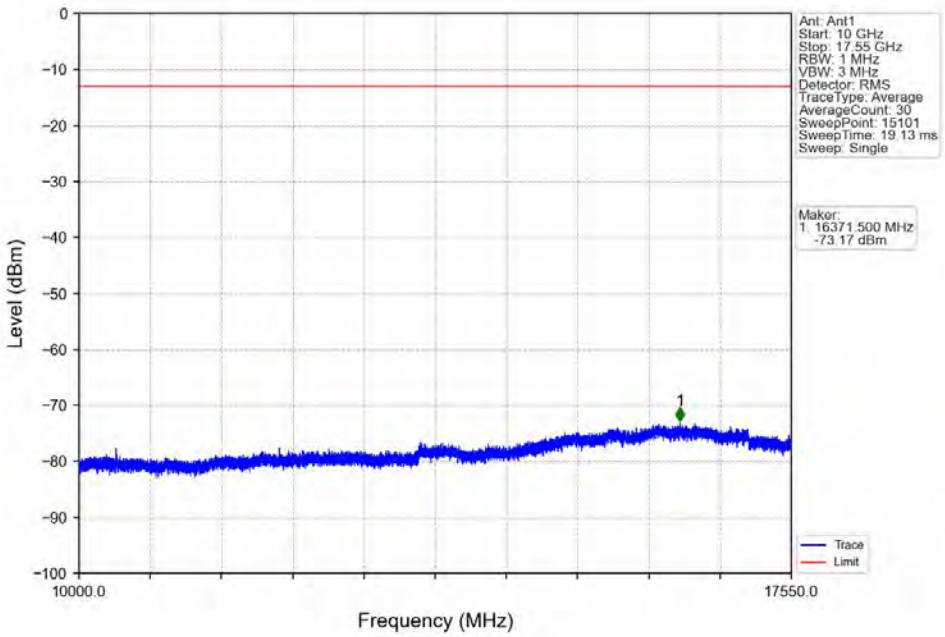



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1708.5 | 1709 | 1 | / | 1 | 1708.989 | -33.32 | -13 | Pass |
| 1709 | 1710 | 0.013 | / | 2 | 1709.817 | -17.37 | -13 | Pass |
| 1710 | 1711.5 | 0.013 | / | / | / | / | / | / |

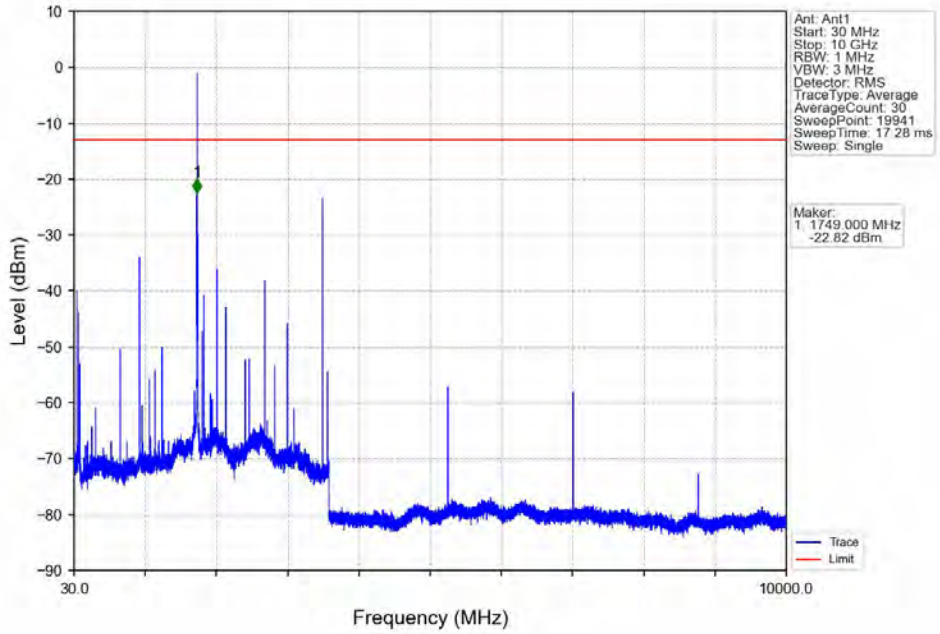
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



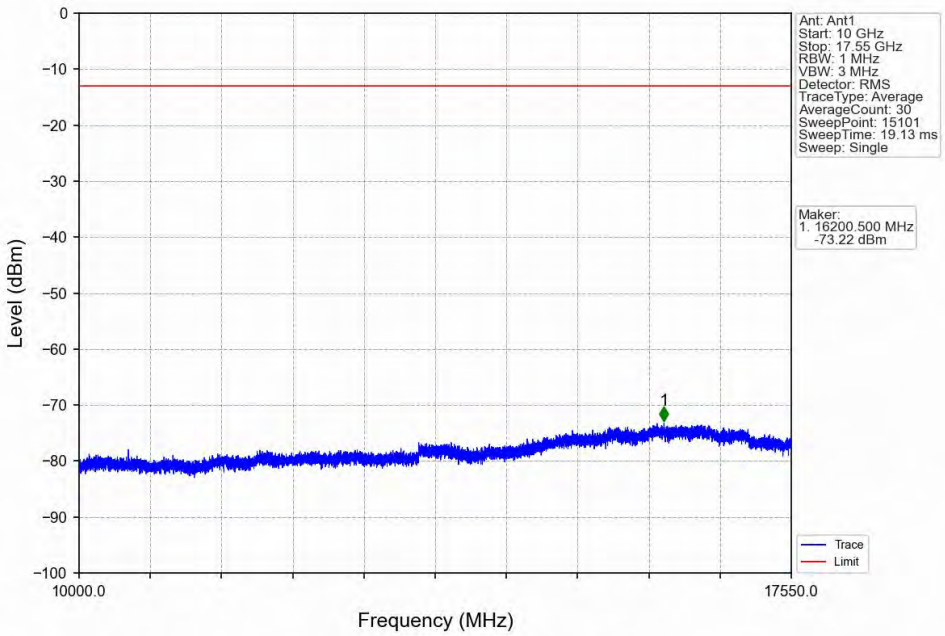

Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



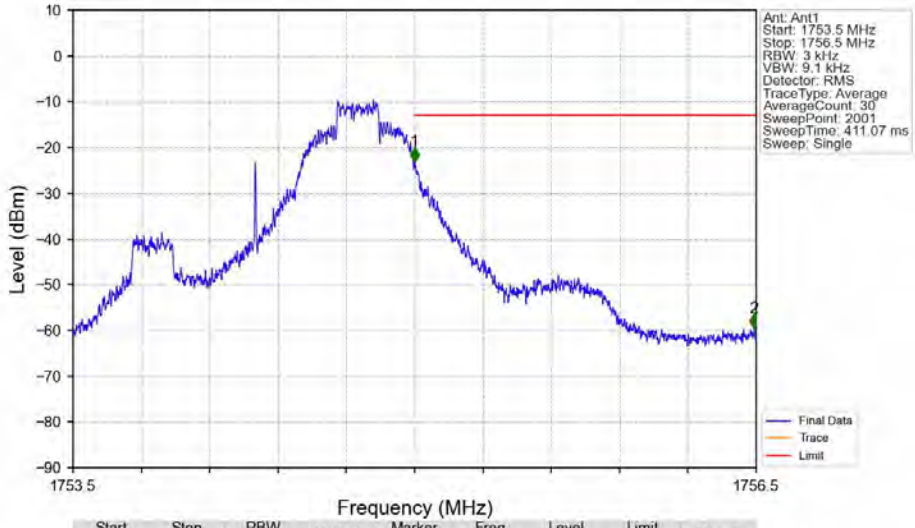
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV




Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_0_NTNV

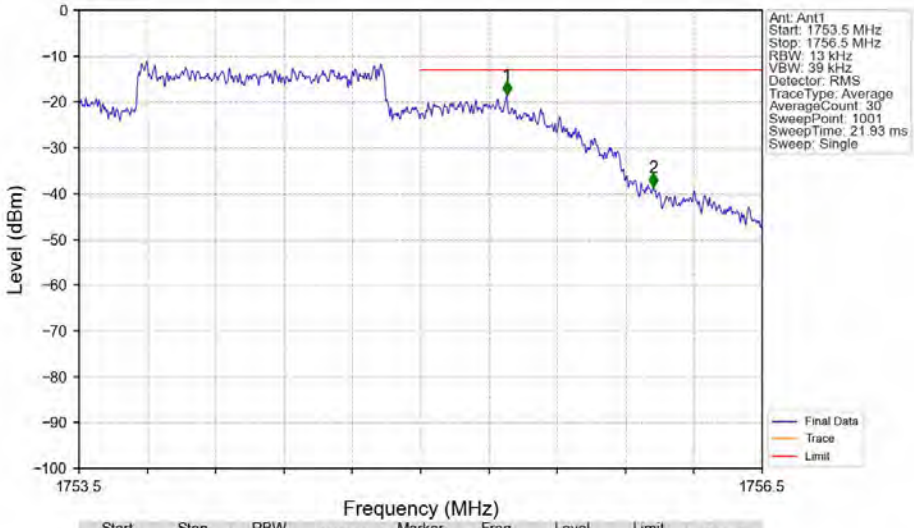


Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_5_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1753.5 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.000 | -23.07 | -13 | Pass |
| 1756 | 1756.5 | 1 | / | 2 | 1756.491 | -59.49 | -13 | Pass |

Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1753.5 | 1755 | 0.013 | / | / | / | / | / | / |
| 1755 | 1756 | 0.013 | / | 1 | 1755.378 | -18.59 | -13 | Pass |
| 1756 | 1756.5 | 1 | / | 2 | 1756.023 | -38.62 | -13 | Pass |

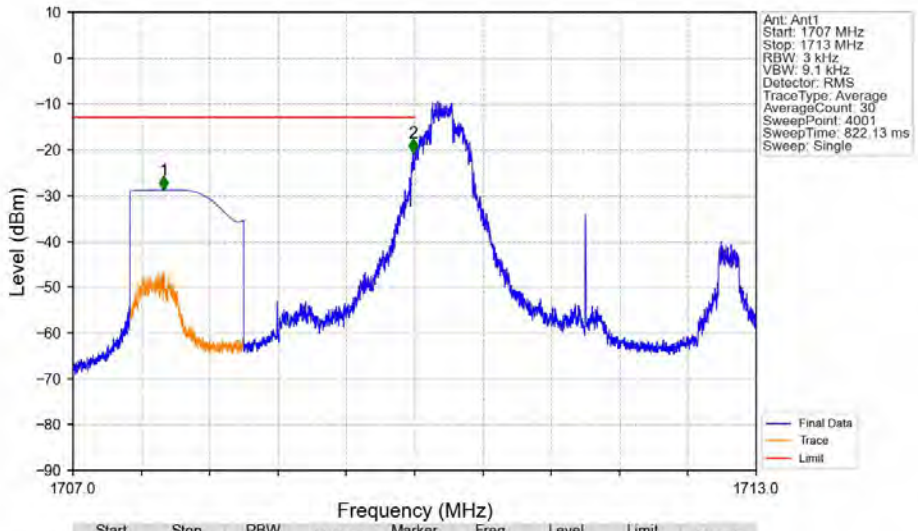
## 6.2 B4_3MHz

### 6.2.1 Test Result

| Band: 4 / Bandwidth: 3MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1711.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1753.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 14 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1711.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1753.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 14 | Refer To Test Graph | | Pass |
| | | 15 | 0 | Refer To Test Graph | | Pass |

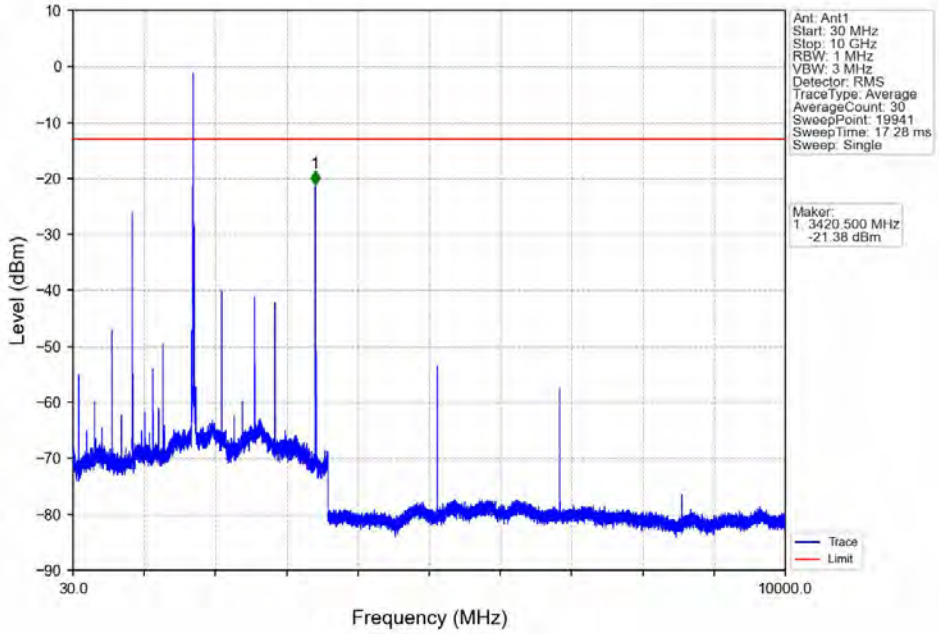
## 6.2.2 Test Graph

Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV

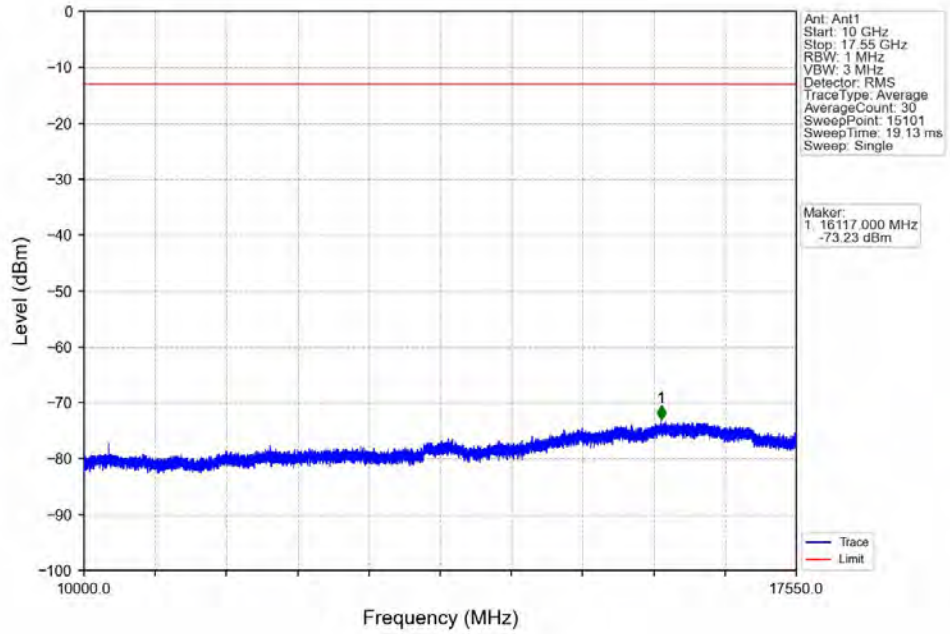



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1707 | 1709 | 1 | CHP | 1 | 1707.795 | -28.84 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.985 | -20.69 | -13 | Pass |
| 1710 | 1713 | 0.003 | / | / | / | / | / | / |

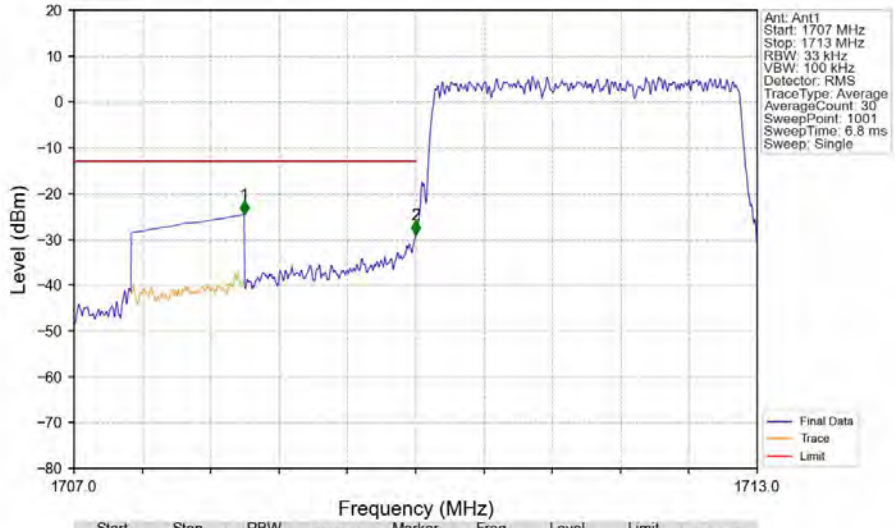
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV



Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV

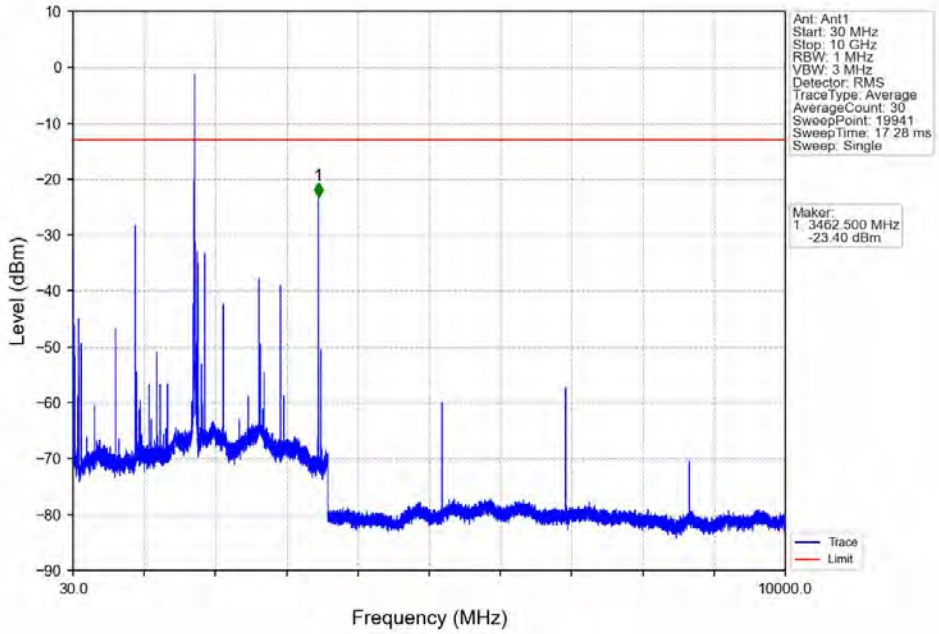



Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV

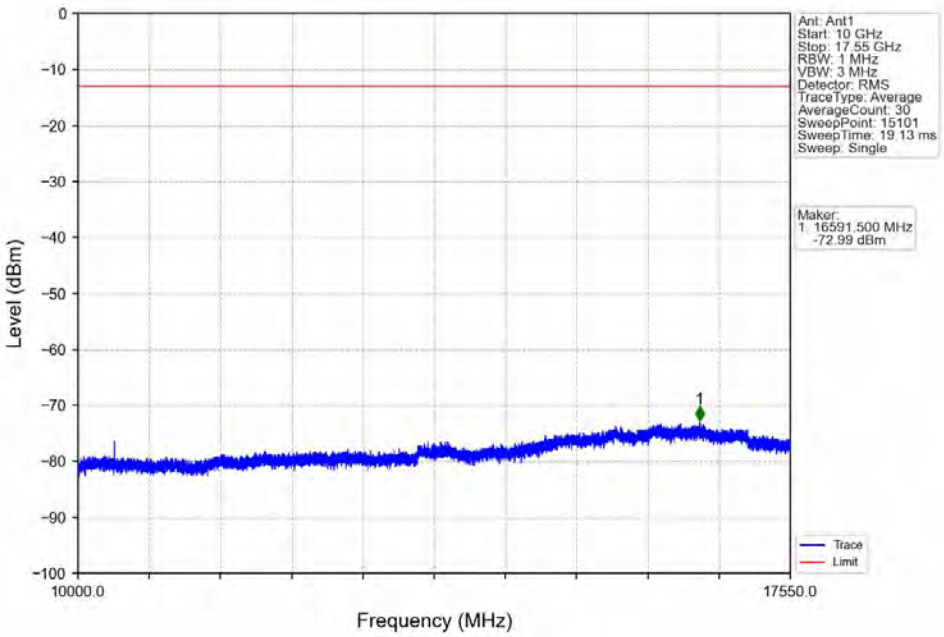



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1707 | 1709 | 1 | CHP | 1 | 1708.494 | -24.62 | -13 | Pass |
| 1709 | 1710 | 0.033 | / | 2 | 1710.000 | -29.08 | -13 | Pass |
| 1710 | 1713 | 0.033 | / | / | / | / | / | / |

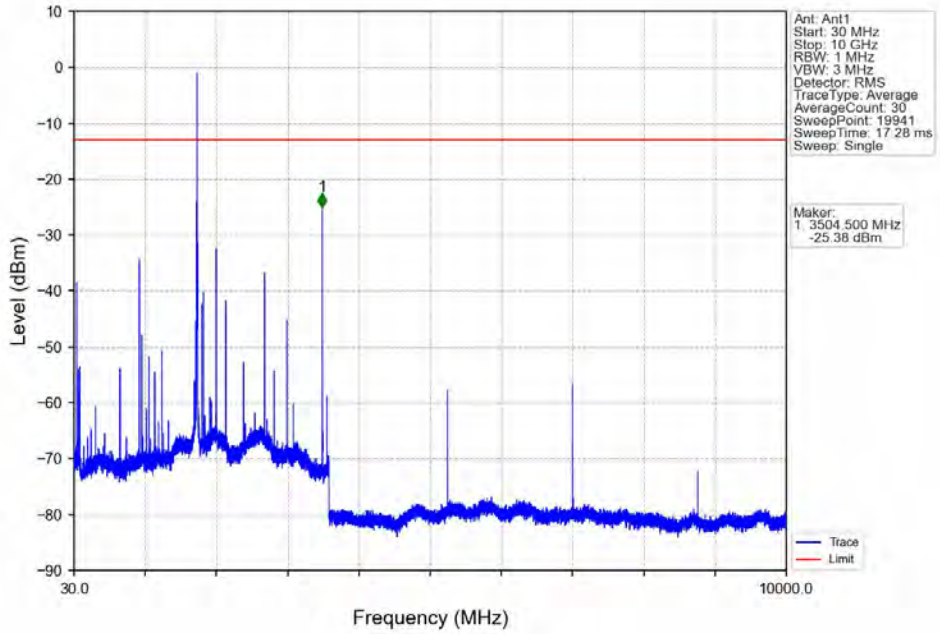
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



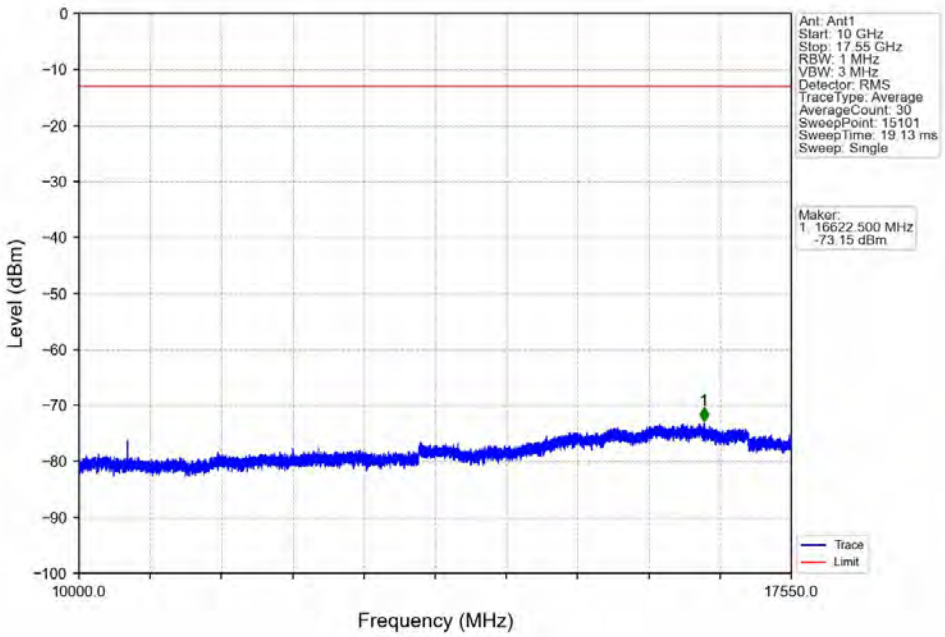

Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



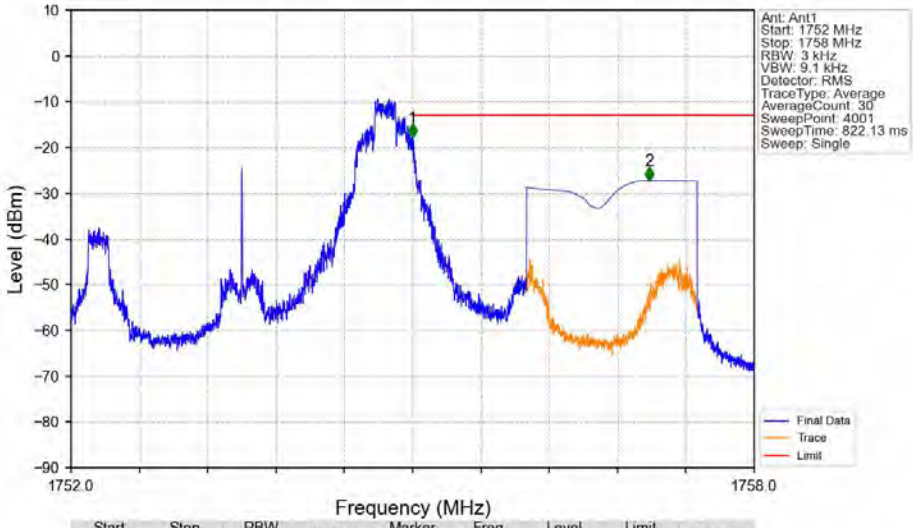
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV




Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV

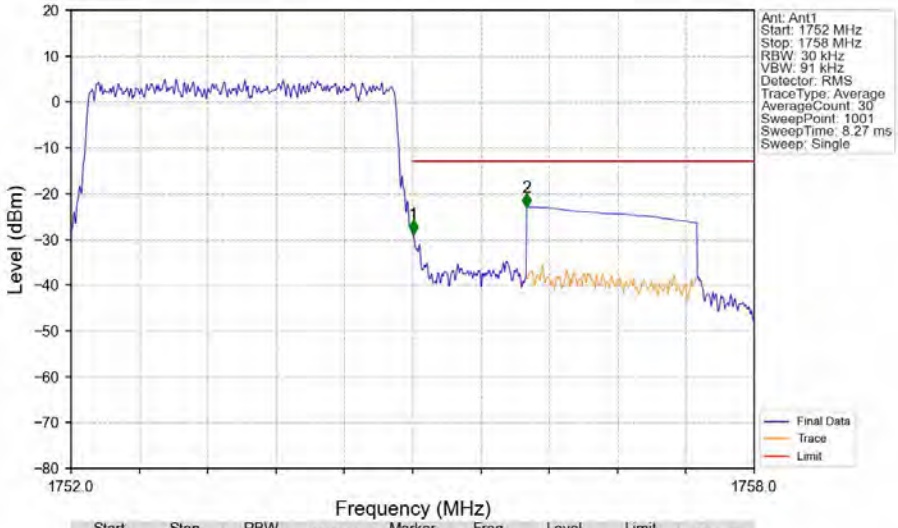


Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_14_NTNV



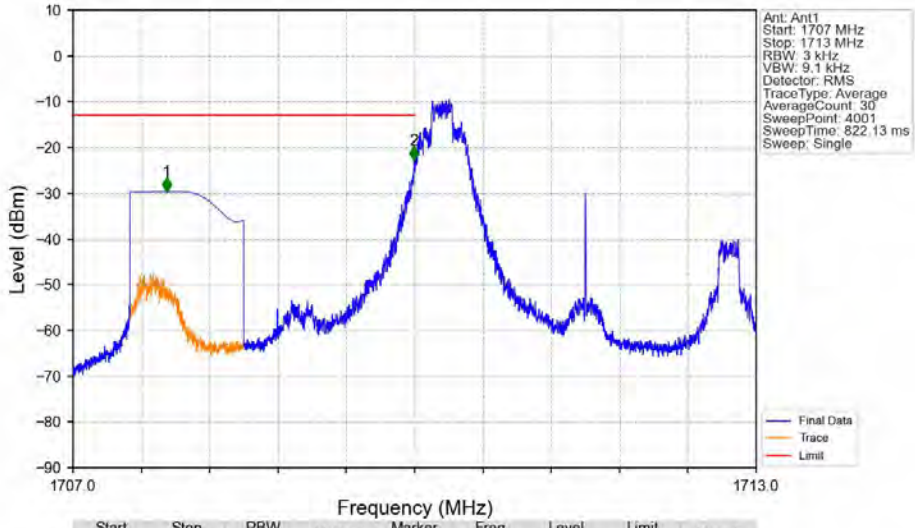

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1752 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.000 | -17.82 | -13 | Pass |
| 1756 | 1758 | 1 | CHP | 2 | 1757.076 | -27.30 | -13 | Pass |

Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



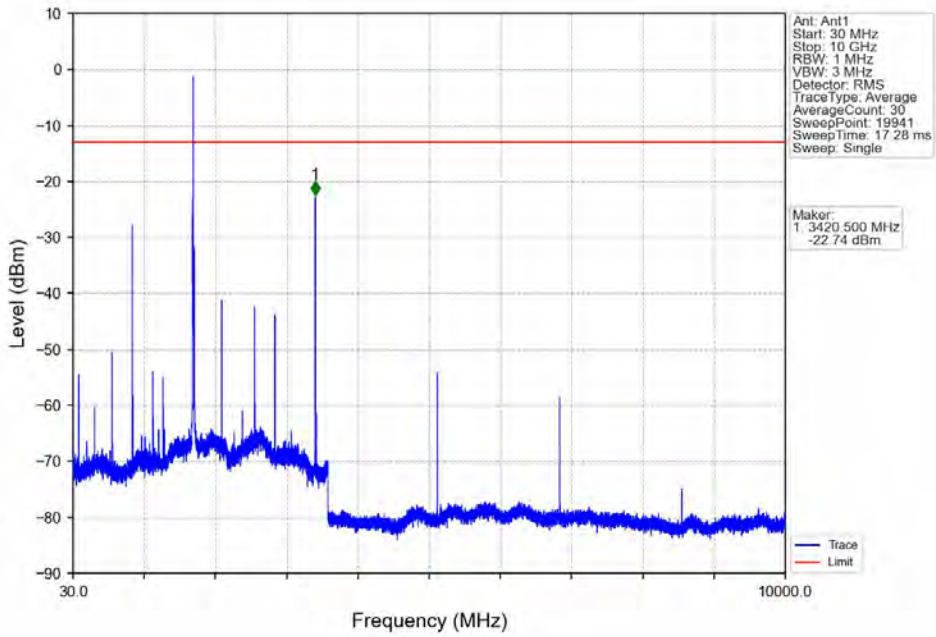

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1752 | 1755 | 0.03 | / | / | / | / | / | / |
| 1755 | 1756 | 0.03 | / | 1 | 1755.006 | -28.82 | -13 | Pass |
| 1756 | 1758 | 1 | CHP | 2 | 1756.002 | -22.99 | -13 | Pass |

Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV

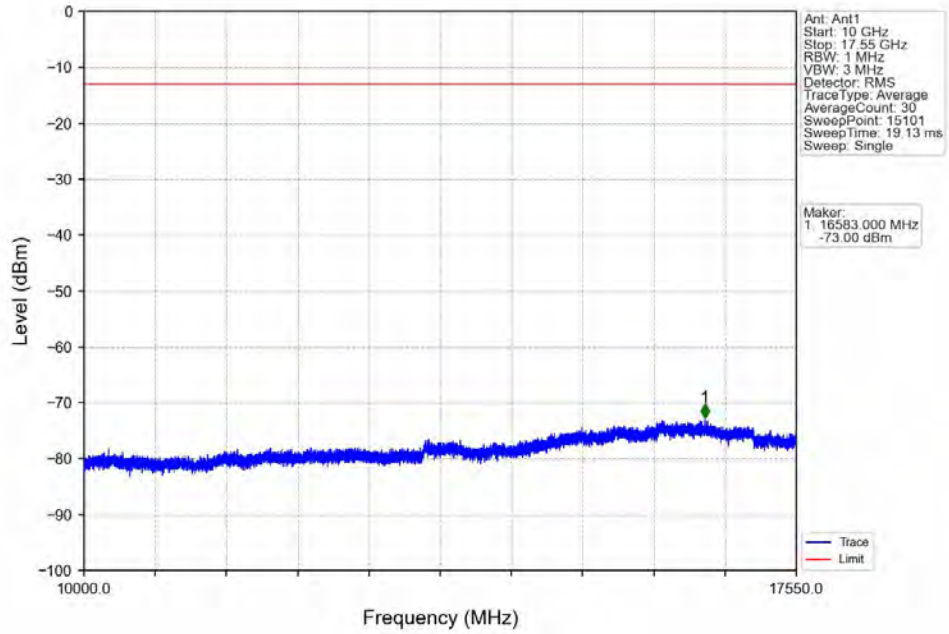



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1707 | 1709 | 1 | CHP | 1 | 1707.821 | -29.69 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.995 | -22.85 | -13 | Pass |
| 1710 | 1713 | 0.003 | / | / | / | / | / | / |

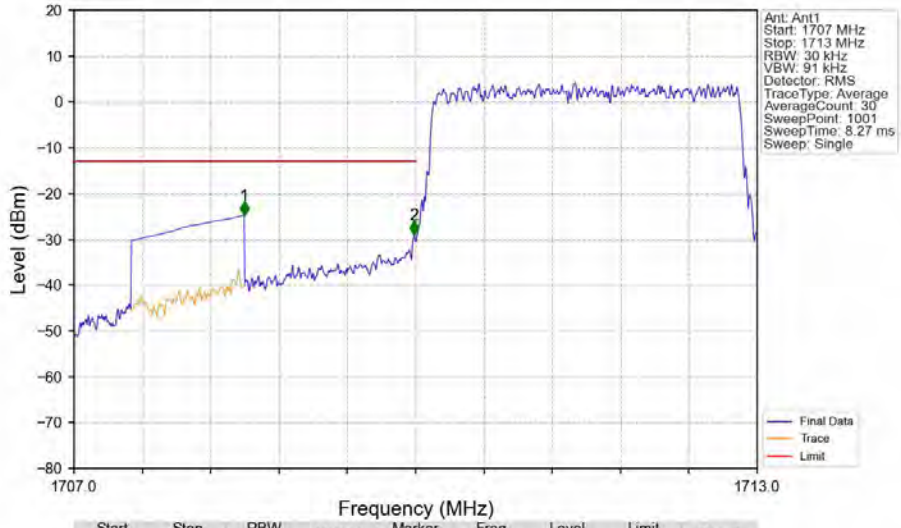
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV



Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV

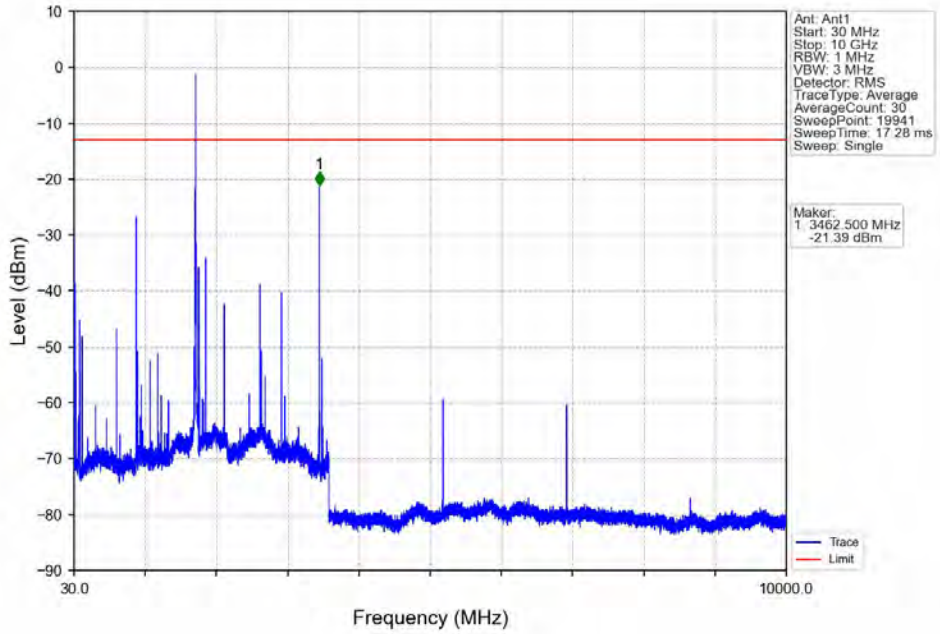



Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV

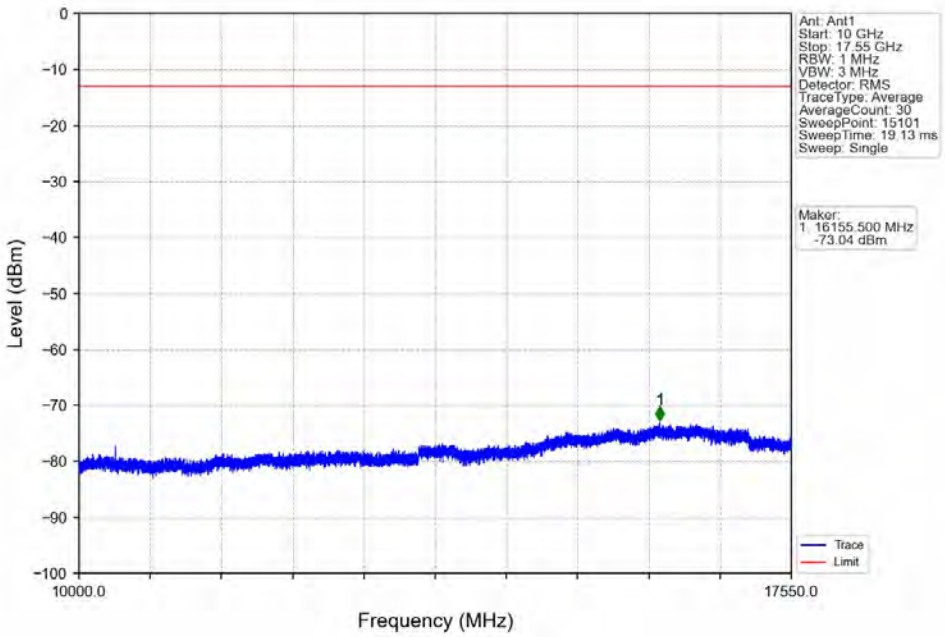



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1707 | 1709 | 1 | CHP | 1 | 1708.494 | -24.77 | -13 | Pass |
| 1709 | 1710 | 0.03 | / | 2 | 1709.988 | -29.05 | -13 | Pass |
| 1710 | 1713 | 0.03 | / | / | / | / | / | / |

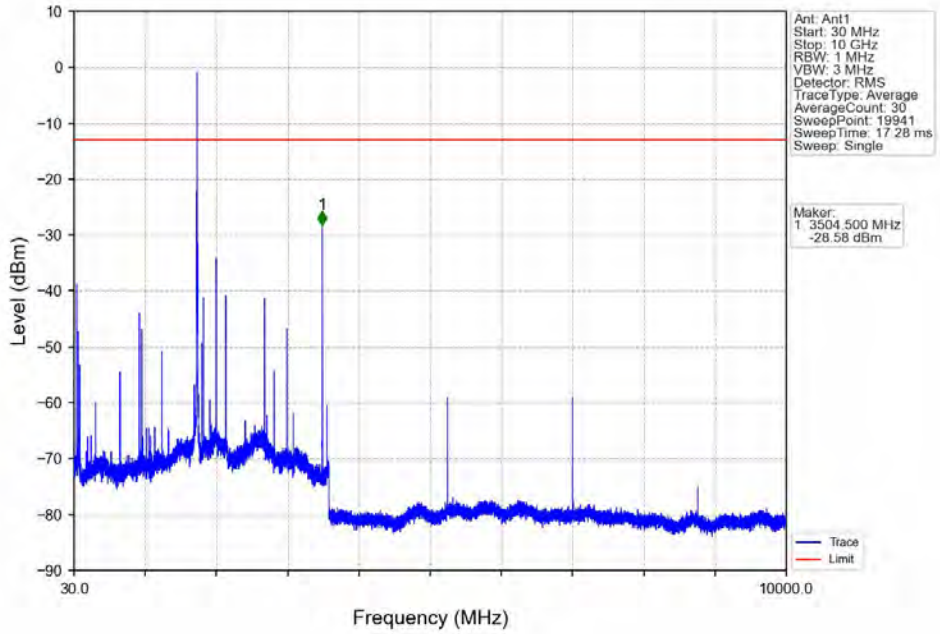
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



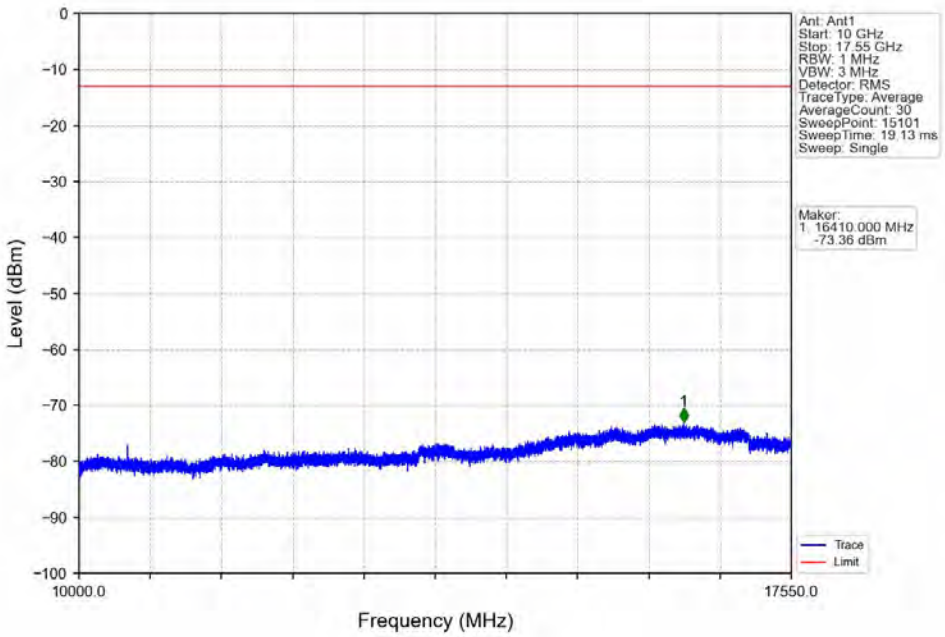

Band4_3MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



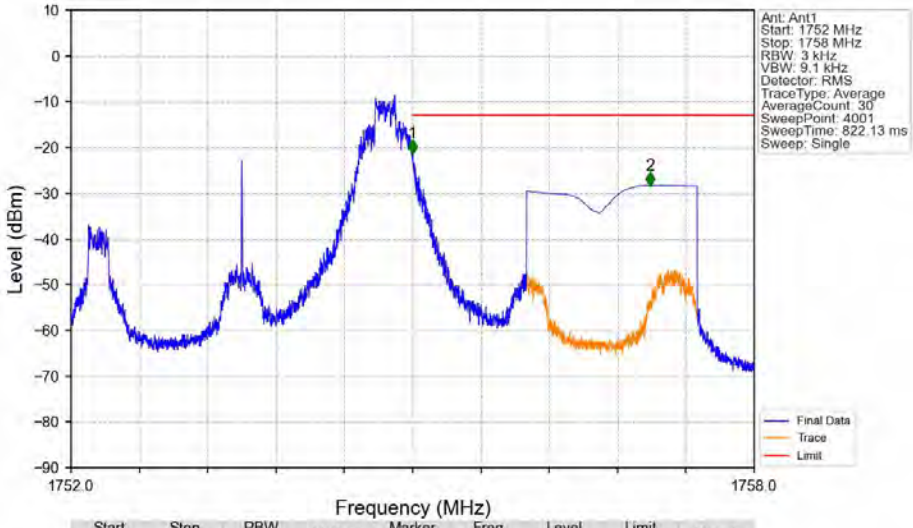
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_0_NTNV




Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_0_NTNV

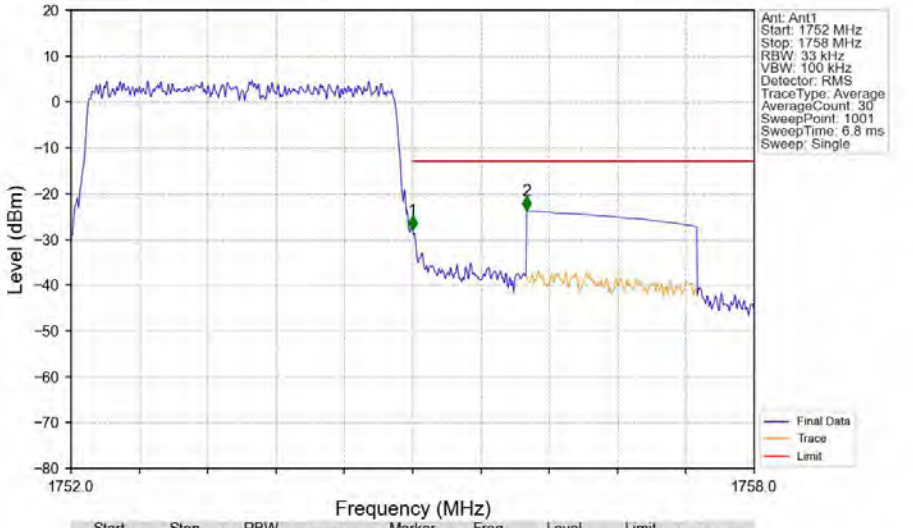


Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_14_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1752 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.000 | -21.32 | -13 | Pass |
| 1756 | 1758 | 1 | CHP | 2 | 1757.086 | -28.36 | -13 | Pass |

Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1752 | 1755 | 0.033 | / | / | / | / | / | / |
| 1755 | 1756 | 0.033 | / | 1 | 1755.000 | -28.05 | -13 | Pass |
| 1756 | 1758 | 1 | CHP | 2 | 1756.002 | -23.80 | -13 | Pass |

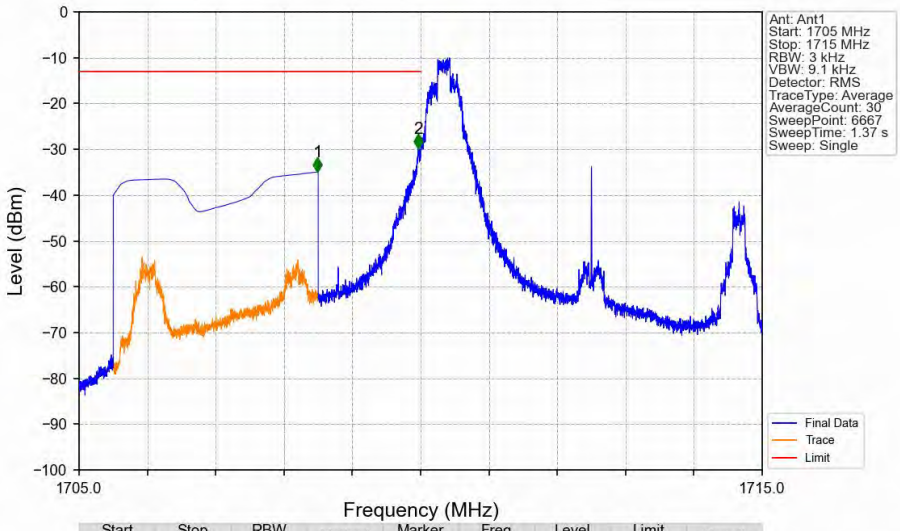
## 6.3 B4_5MHz

### 6.3.1 Test Result

| Band: 4 / Bandwidth: 5MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1712.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1752.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1712.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1752.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 24 | Refer To Test Graph | | Pass |
| | | 25 | 0 | Refer To Test Graph | | Pass |

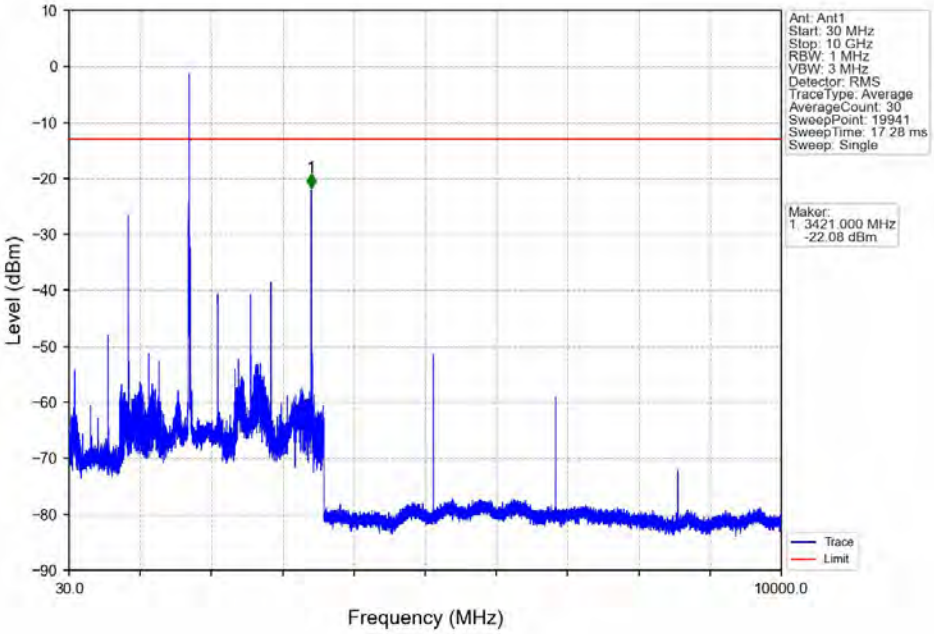
## 6.3.2 Test Graph

Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV

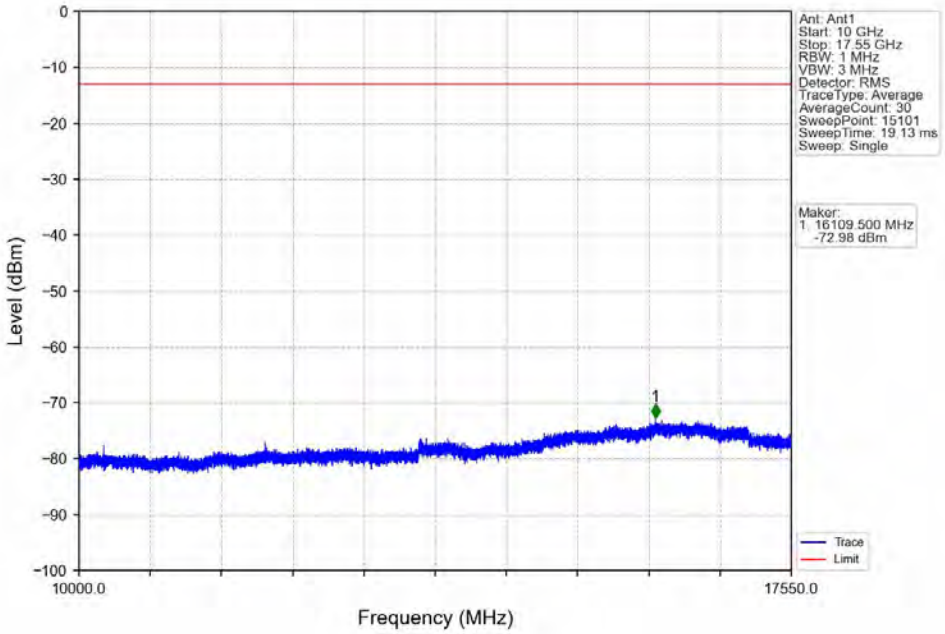



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1705 | 1709 | 1 | CHP | 1 | 1708.492 | -34.96 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.962 | -29.78 | -13 | Pass |
| 1710 | 1715 | 0.003 | / | / | / | / | / | / |

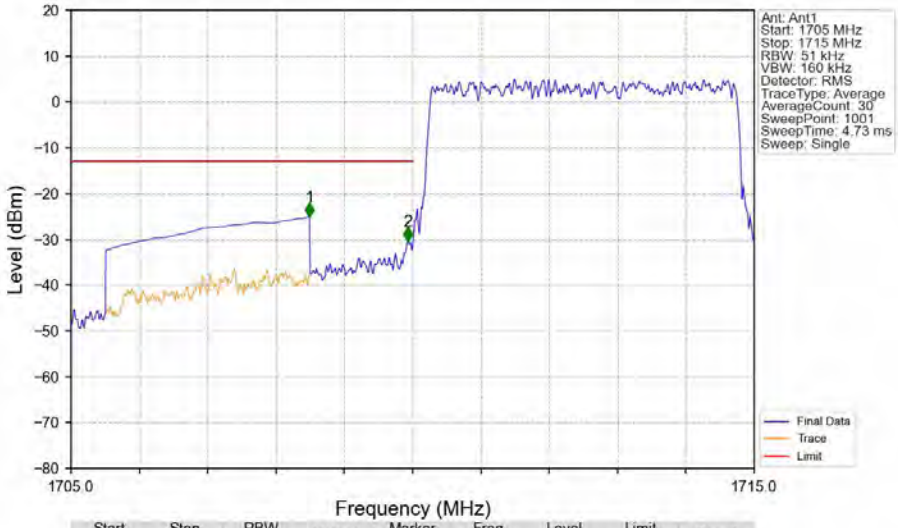
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV



Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV

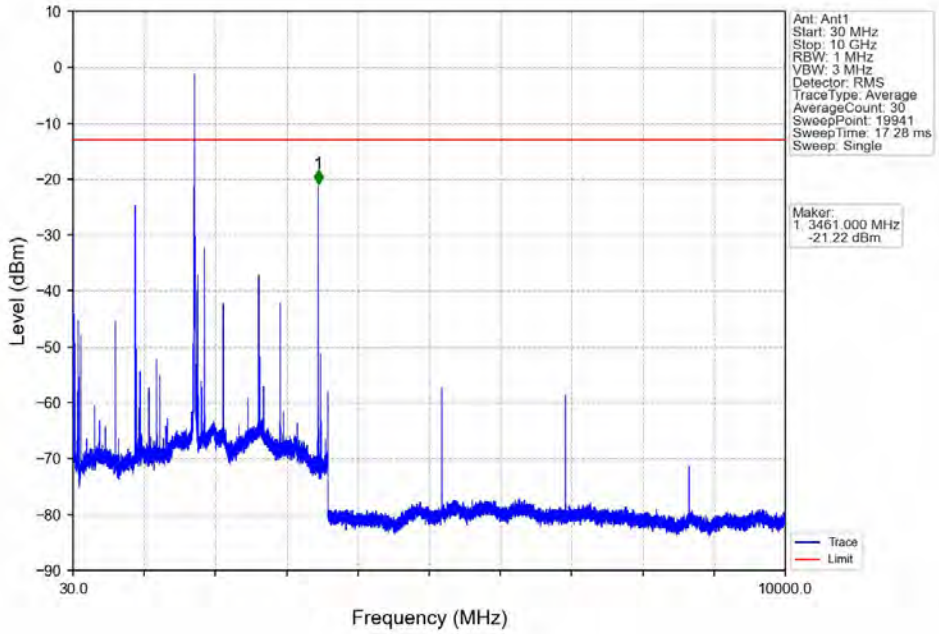



Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV

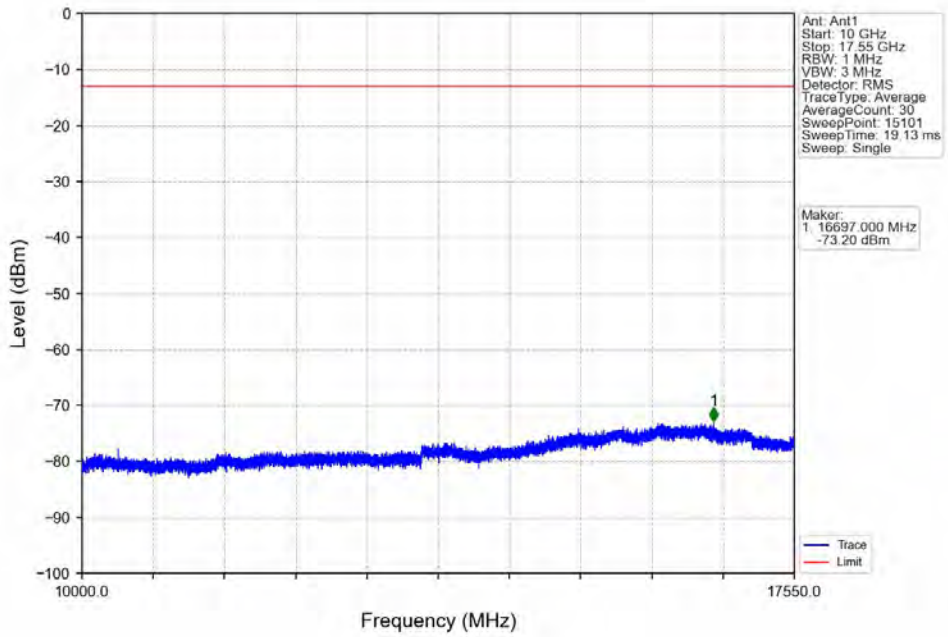



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1705 | 1709 | 1 | CHP | 1 | 1708.490 | -25.11 | -13 | Pass |
| 1709 | 1710 | 0.051 | / | 2 | 1709.930 | -30.42 | -13 | Pass |
| 1710 | 1715 | 0.051 | / | / | / | / | / | / |

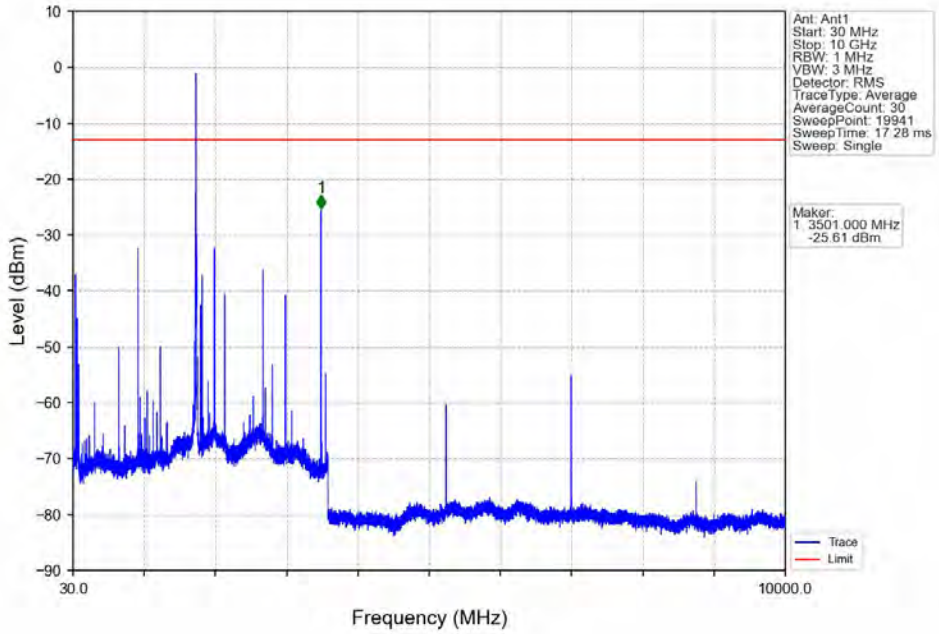
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



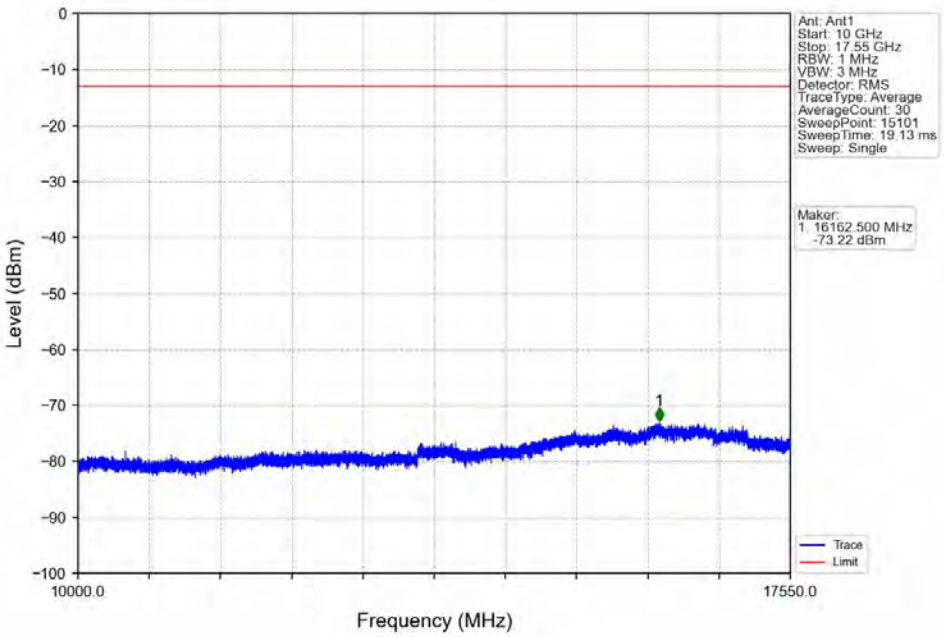

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



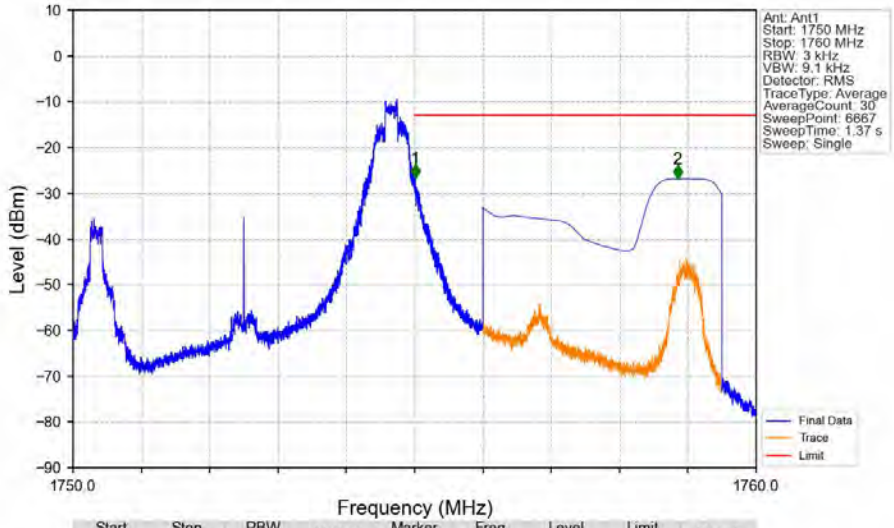
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_0_NTNV




Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_0_NTNV

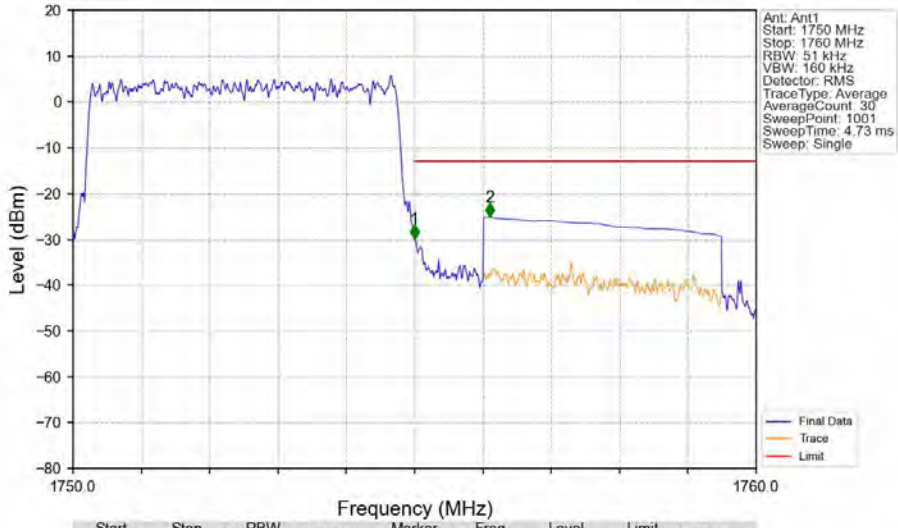


Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_24_NTNV



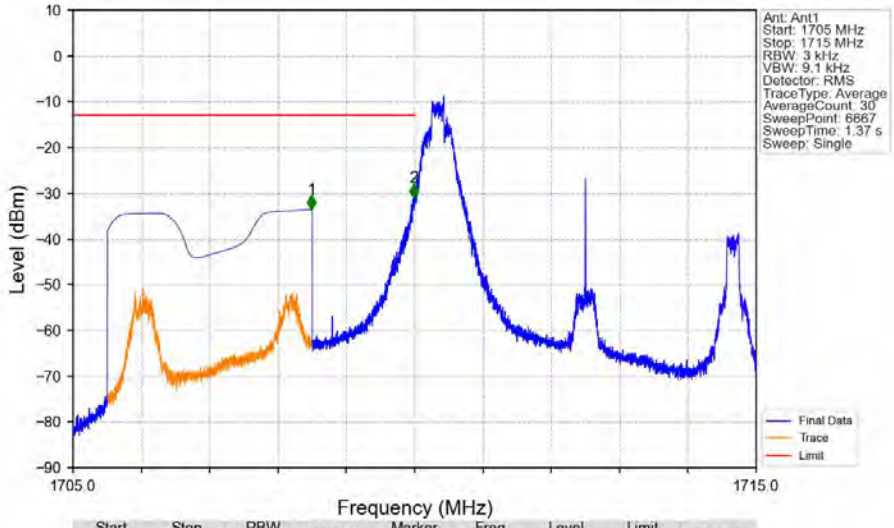

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1750 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.009 | -26.65 | -13 | Pass |
| 1756 | 1760 | 1 | CHP | 2 | 1758.848 | -26.88 | -13 | Pass |

Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



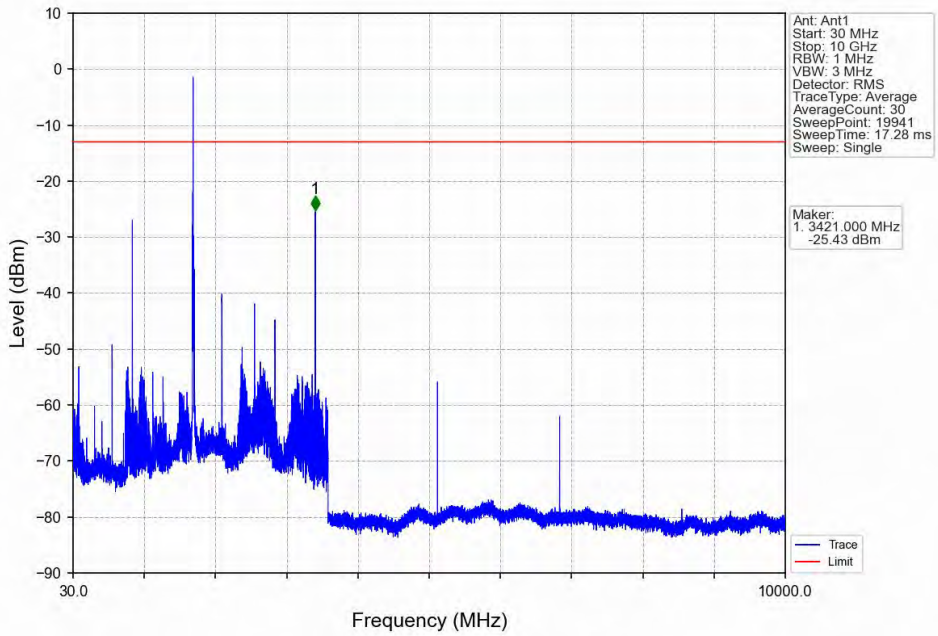

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1750 | 1755 | 0.051 | / | / | / | / | / | / |
| 1755 | 1756 | 0.051 | / | 1 | 1755.000 | -29.95 | -13 | Pass |
| 1756 | 1760 | 1 | CHP | 2 | 1756.100 | -25.20 | -13 | Pass |

Band4_5MHz_16QAM_LCH_1712.5MHz_RB_1_0_NTNV

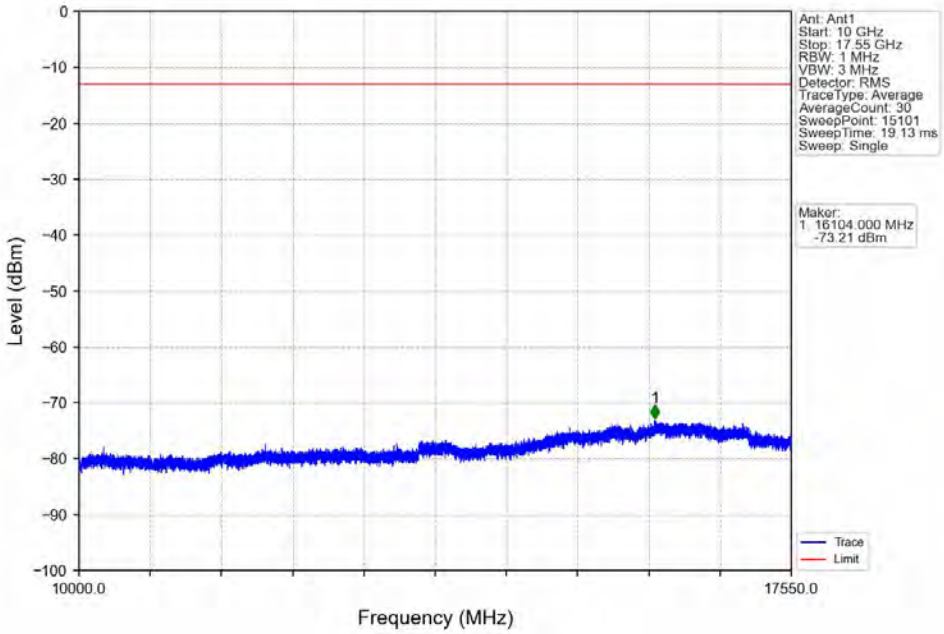



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1705 | 1709 | 1 | CHP | 1 | 1708.492 | -33.62 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.994 | -31.03 | -13 | Pass |
| 1710 | 1715 | 0.003 | / | / | / | / | / | / |

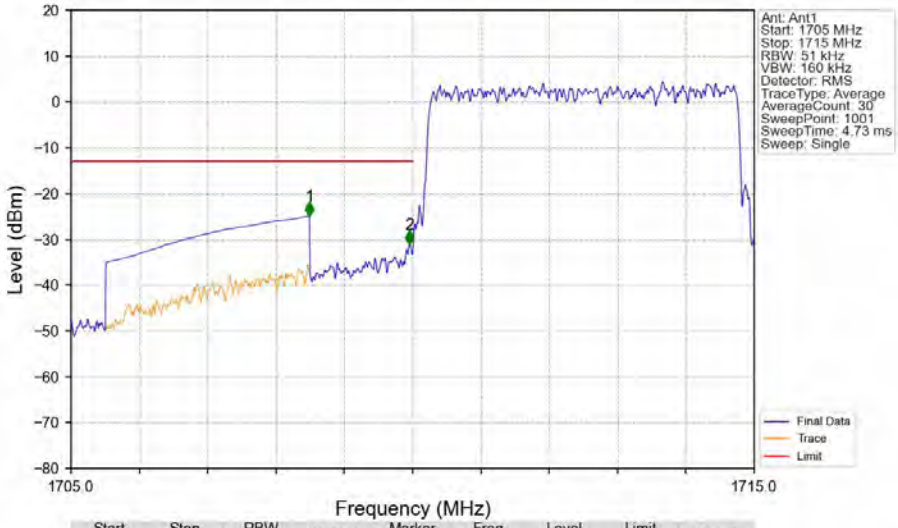
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_1_0_NTNV



Band4_5MHz_16QAM_LCH_1712.5MHz_RB_1_0_NTNV

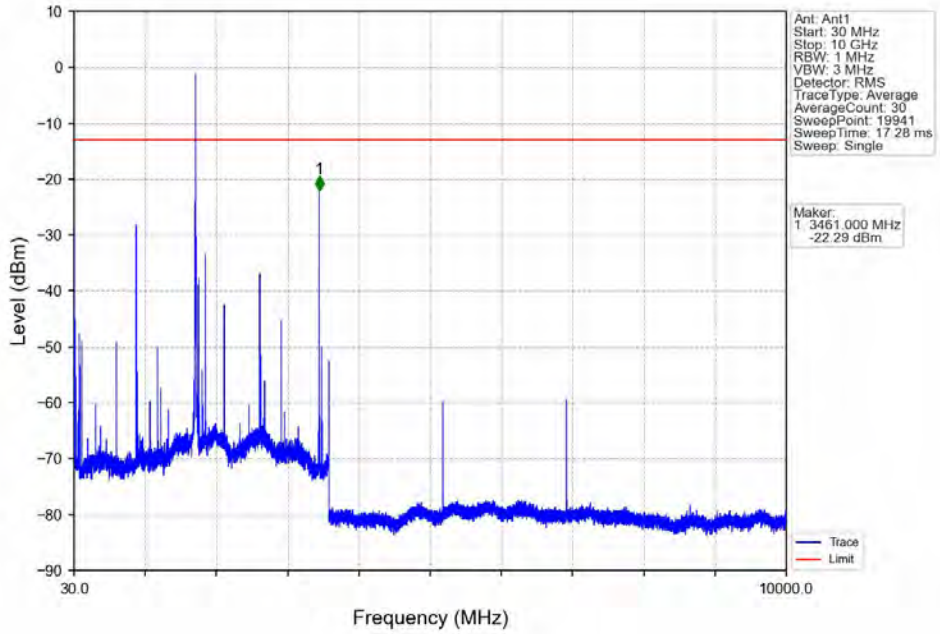



Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV

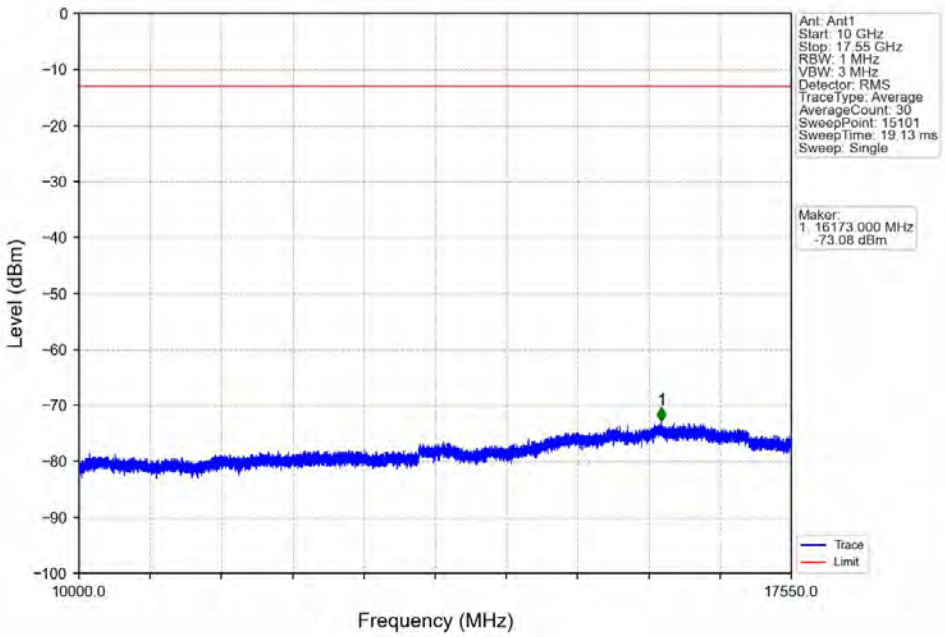



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1705 | 1709 | 1 | CHP | 1 | 1708.490 | -24.98 | -13 | Pass |
| 1709 | 1710 | 0.051 | / | 2 | 1709.950 | -31.15 | -13 | Pass |
| 1710 | 1715 | 0.051 | / | / | / | / | / | / |

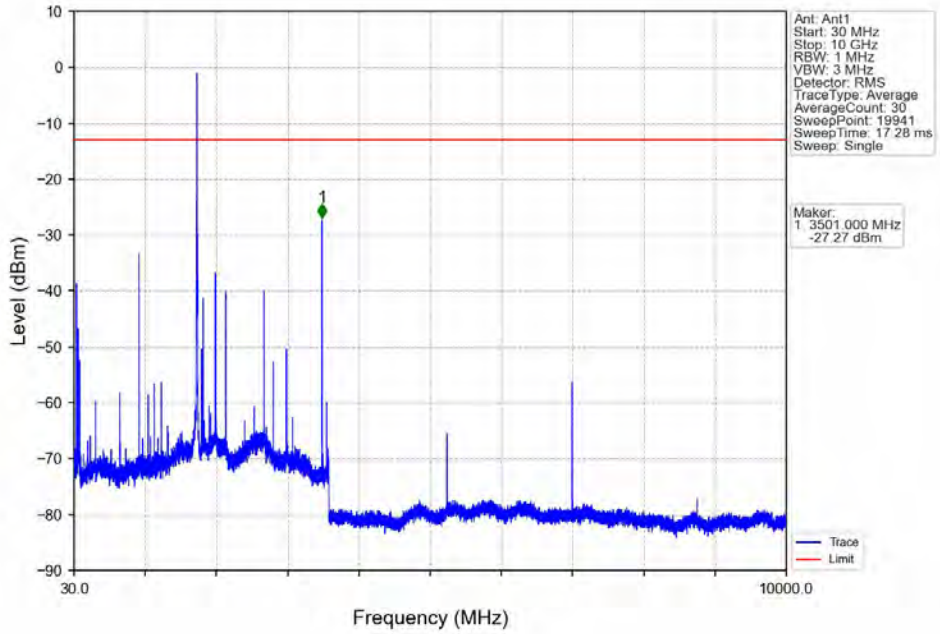
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



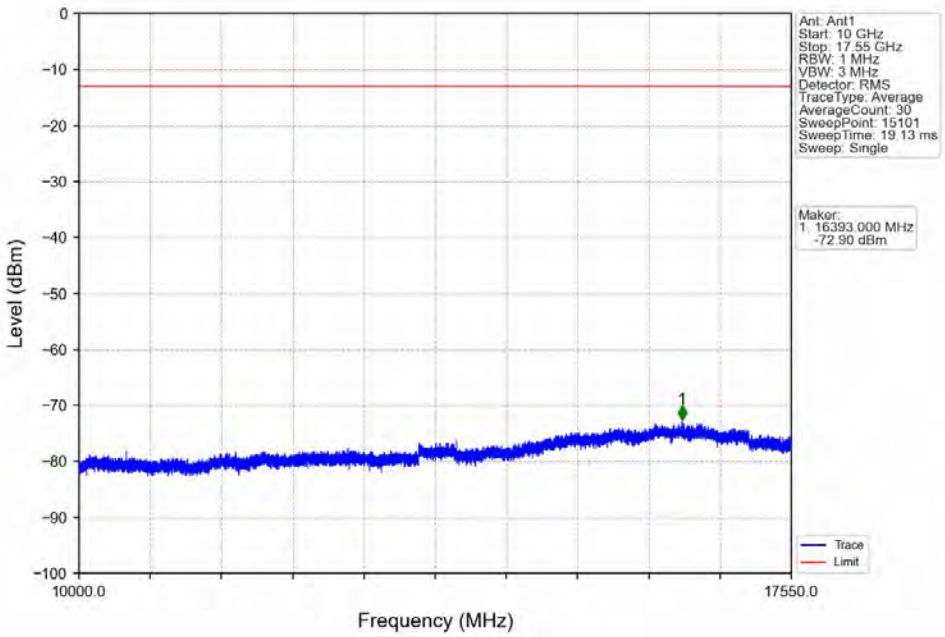

Band4_5MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



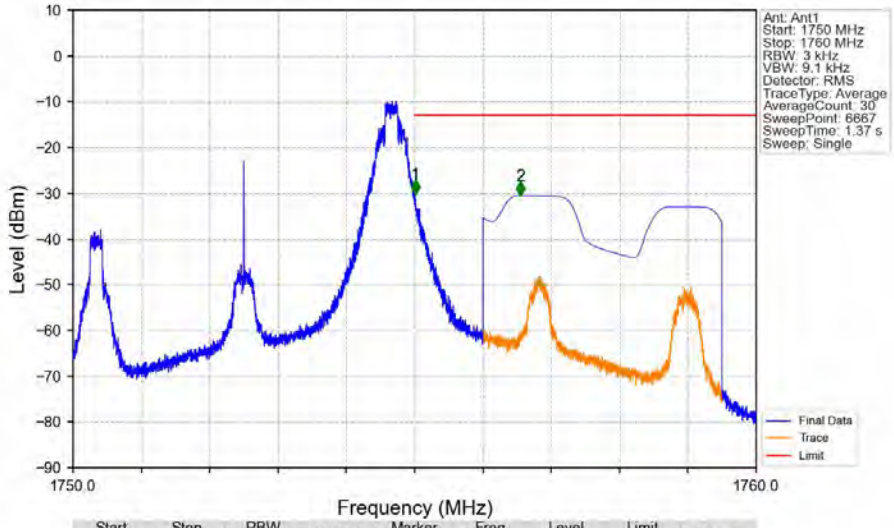
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_1_0_NTNV




Band4_5MHz_16QAM_HCH_1752.5MHz_RB_1_0_NTNV

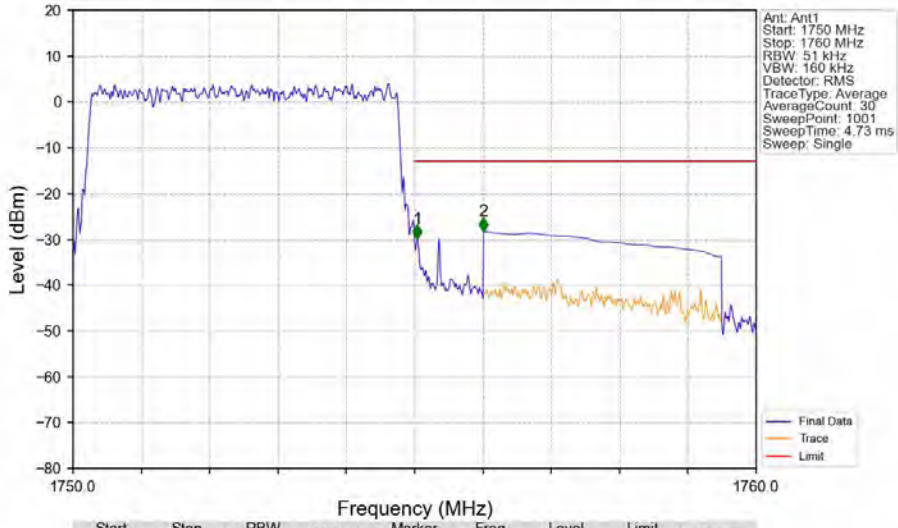


Band4_5MHz_16QAM_HCH_1752.5MHz_RB_1_24_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1750 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.006 | -30.21 | -13 | Pass |
| 1756 | 1760 | 1 | CHP | 2 | 1756.553 | -30.53 | -13 | Pass |

Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1750 | 1755 | 0.051 | / | / | / | / | / | / |
| 1755 | 1756 | 0.051 | / | 1 | 1755.040 | -29.89 | -13 | Pass |
| 1756 | 1760 | 1 | CHP | 2 | 1756.010 | -28.25 | -13 | Pass |

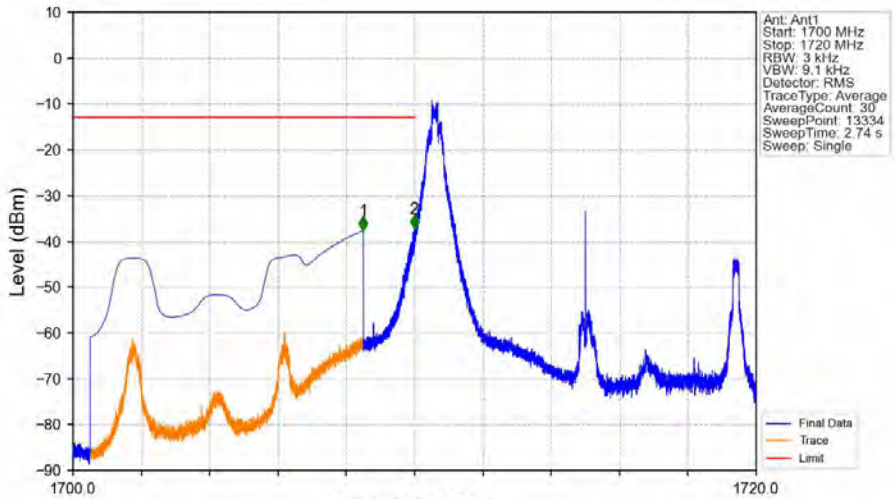
## 6.4 B4_10MHz

### 6.4.1 Test Result

| Band: 4 / Bandwidth: 10MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1715 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1750 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |
| | | 50 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1715 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1750 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 49 | Refer To Test Graph | | Pass |

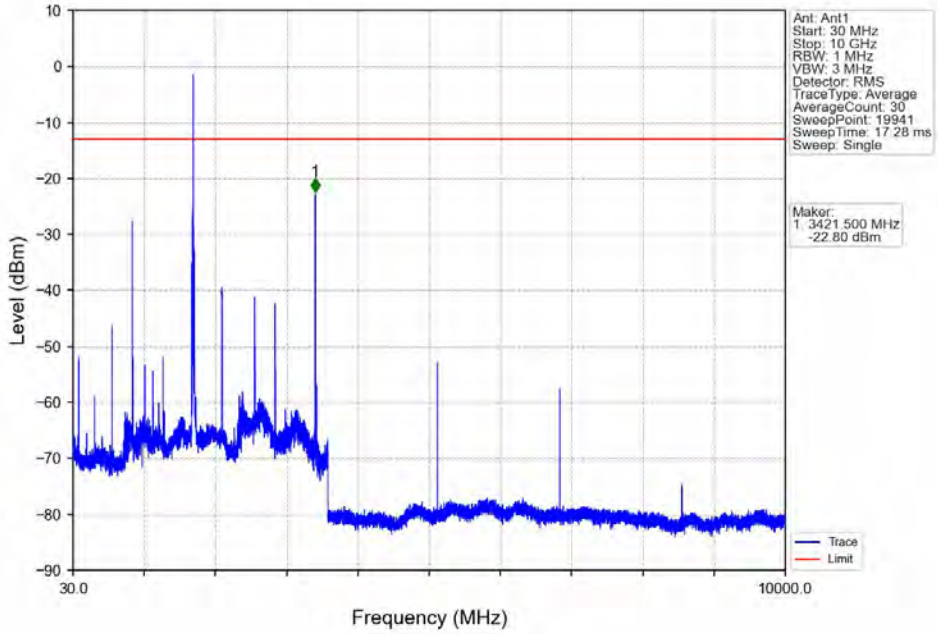
## 6.4.2 Test Graph

Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV

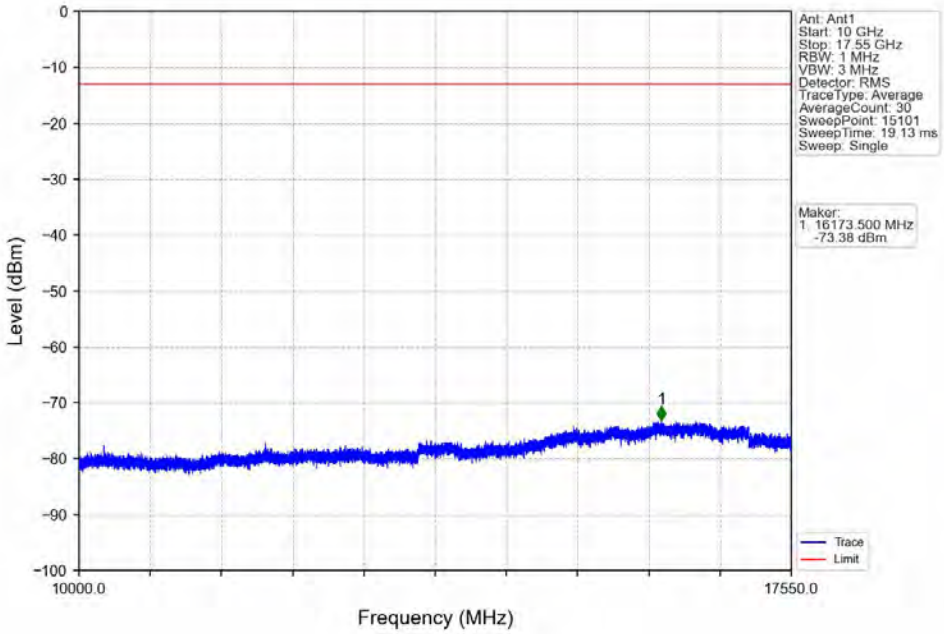



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1700 | 1709 | 1 | CHP | 1 | 1708.498 | -37.67 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.990 | -37.28 | -13 | Pass |
| 1710 | 1720 | 0.003 | / | / | / | / | / | / |

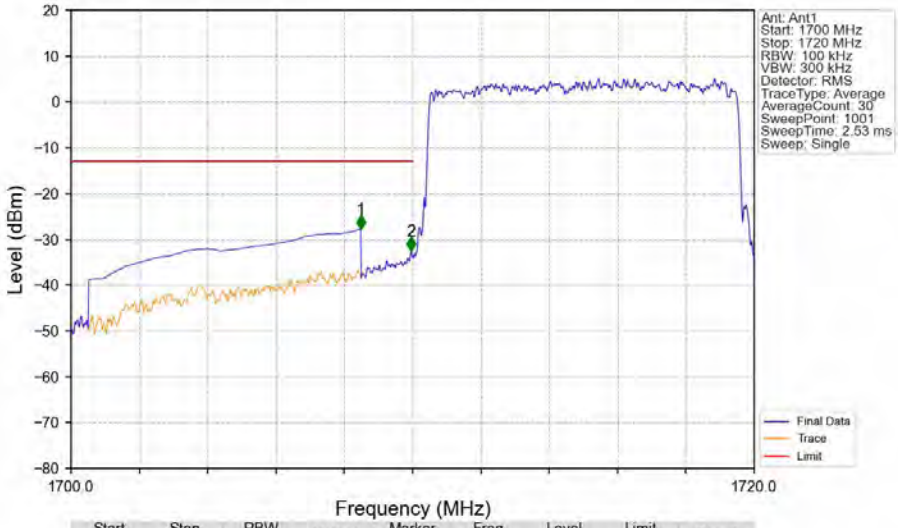
Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV



Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV

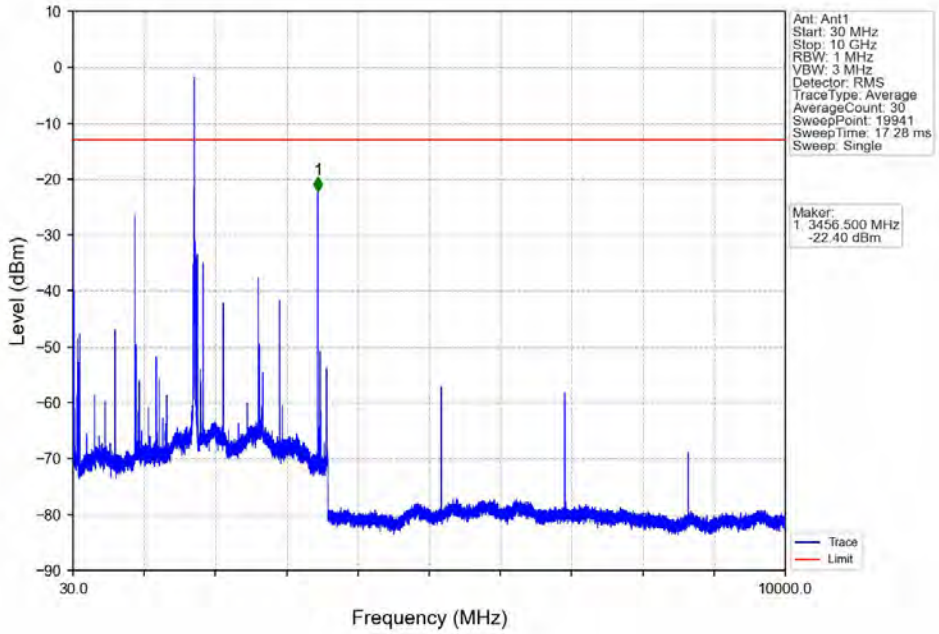



Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV

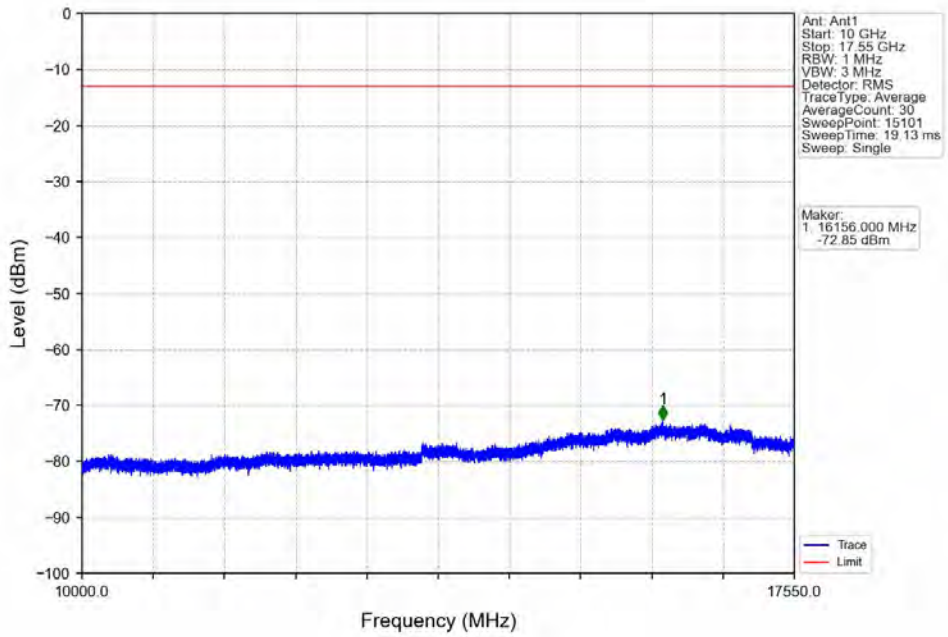



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1700 | 1709 | 1 | CHP | 1 | 1708.480 | -27.83 | -13 | Pass |
| 1709 | 1710 | 0.1 | / | 2 | 1709.960 | -32.56 | -13 | Pass |
| 1710 | 1720 | 0.1 | / | / | / | / | / | / |

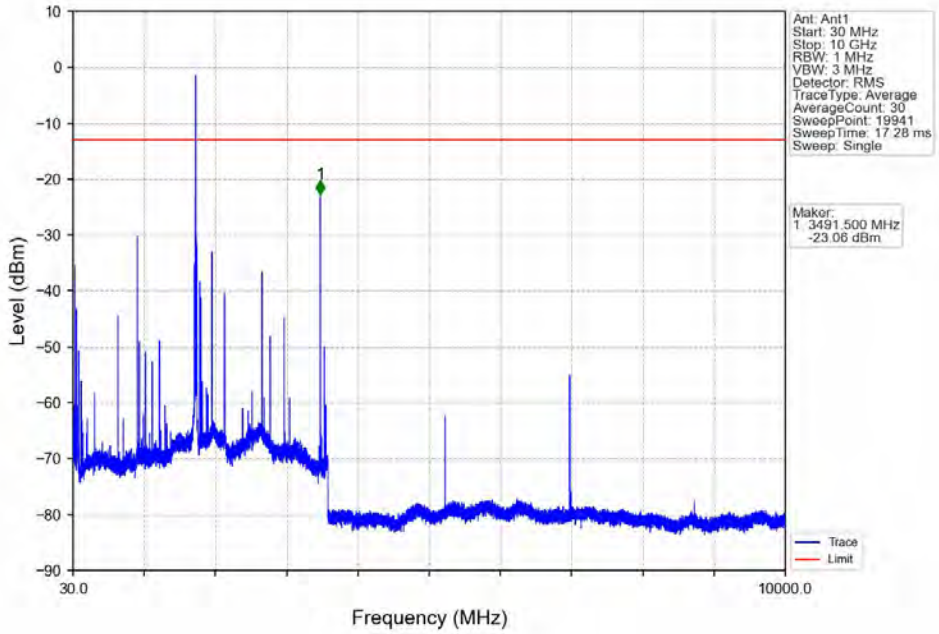
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



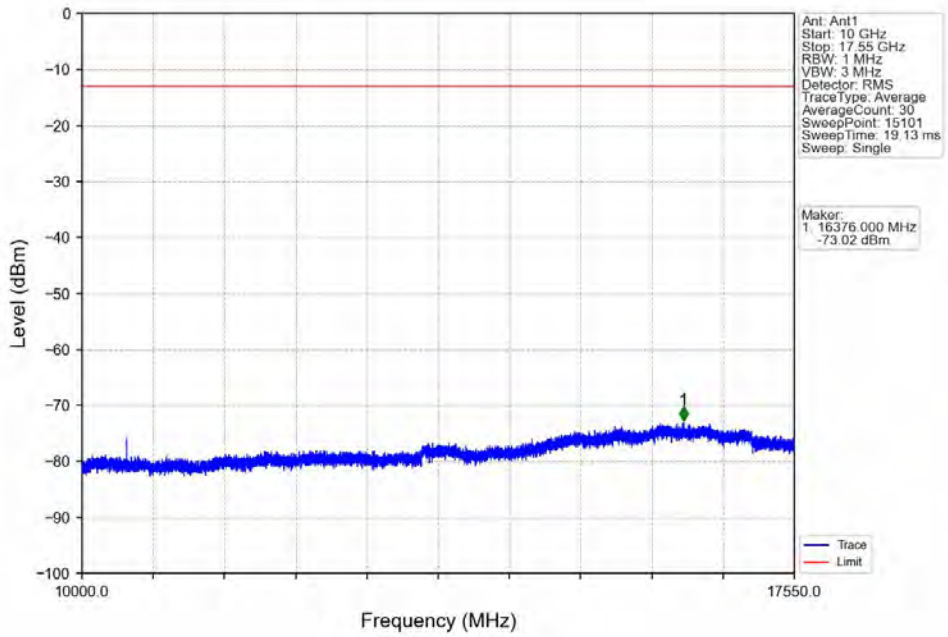

Band4_10MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



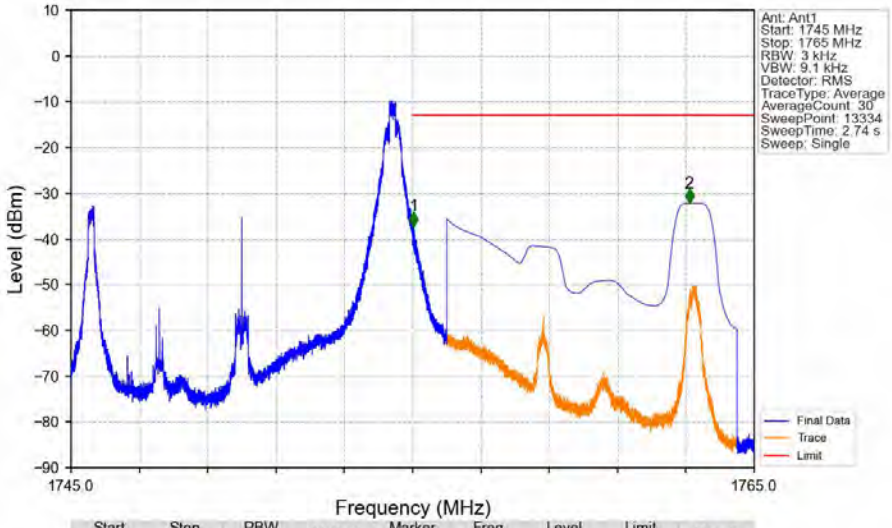
Band4_10MHz_QPSK_HCH_1750MHz_RB_1_0_NTNV




Band4_10MHz_QPSK_HCH_1750MHz_RB_1_0_NTNV

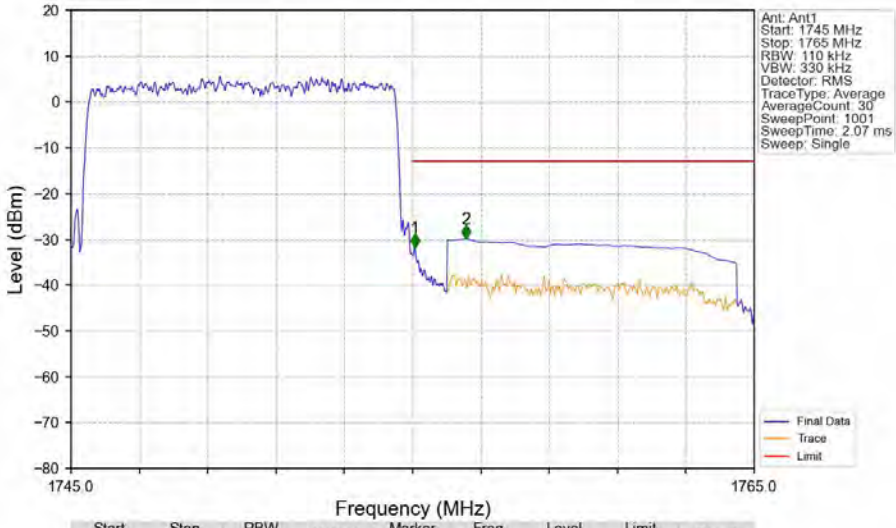


Band4_10MHz_QPSK_HCH_1750MHz_RB_1_49_NTNV



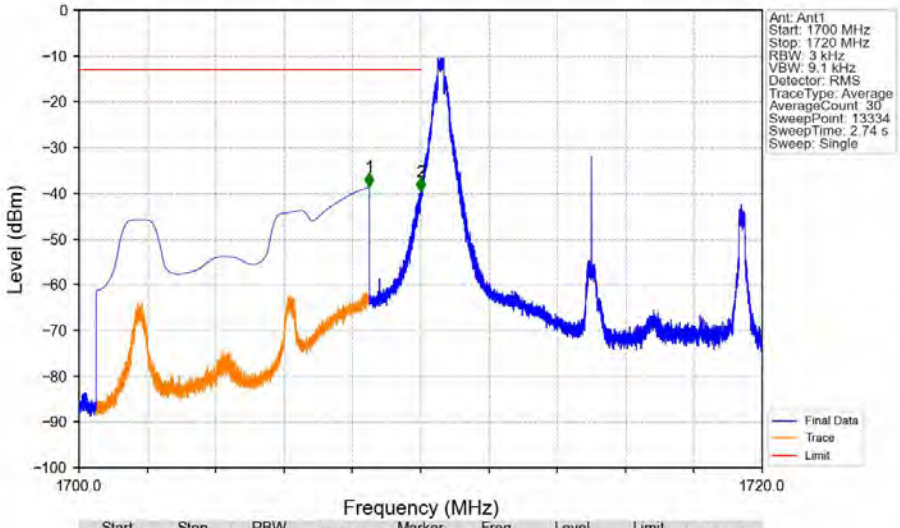

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1745 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.026 | -37.20 | -13 | Pass |
| 1756 | 1765 | 1 | CHP | 2 | 1763.098 | -32.21 | -13 | Pass |

Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



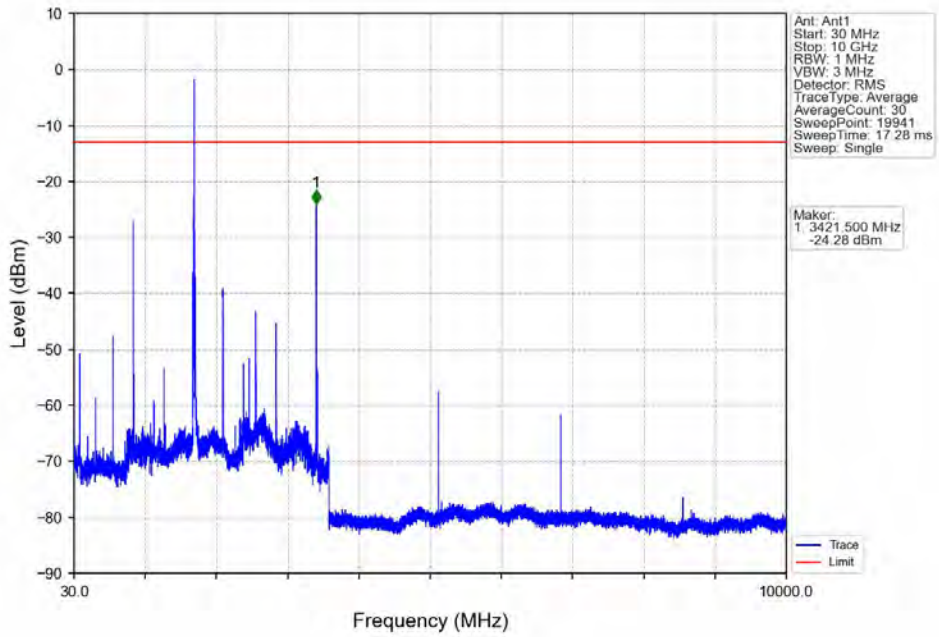

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1745 | 1755 | 0.11 | / | / | / | / | / | / |
| 1755 | 1756 | 0.11 | / | 1 | 1755.060 | -31.88 | -13 | Pass |
| 1756 | 1765 | 1 | CHP | 2 | 1756.560 | -29.87 | -13 | Pass |

Band4_10MHz_16QAM_LCH_1715MHz_RB_1_0_NTNV

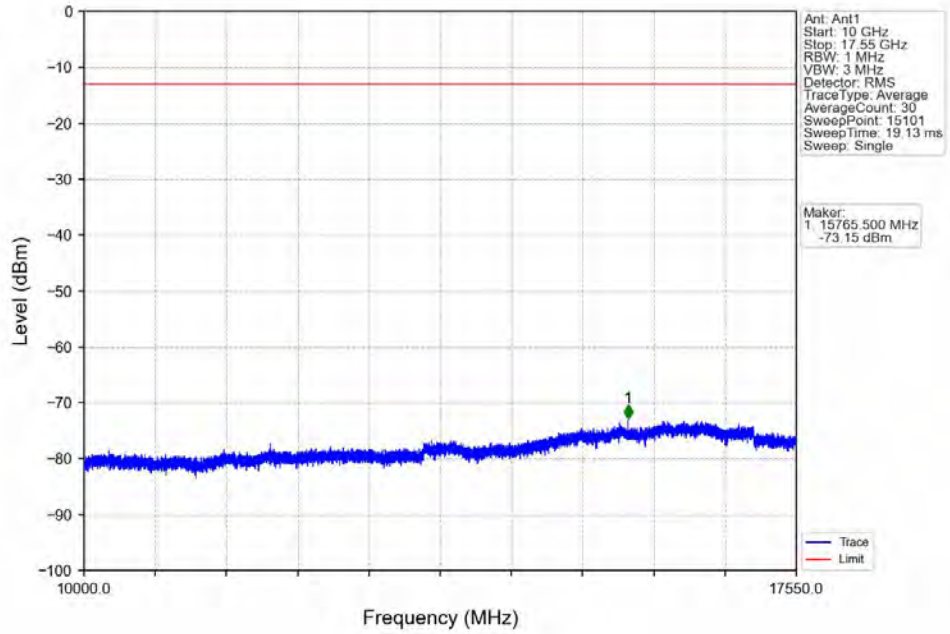



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1700 | 1709 | 1 | CHP | 1 | 1708.496 | -38.65 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.998 | -39.69 | -13 | Pass |
| 1710 | 1720 | 0.003 | / | / | / | / | / | / |

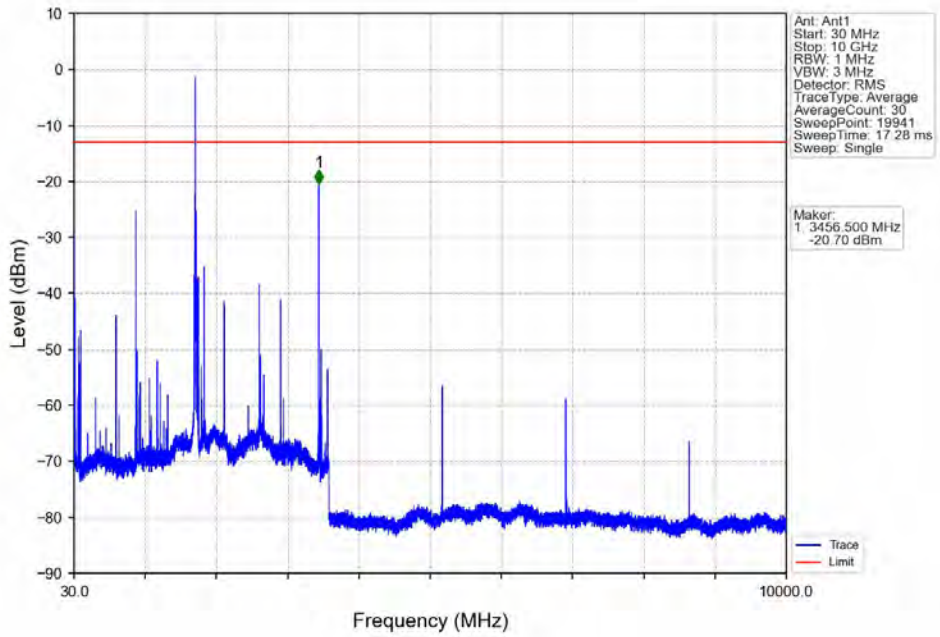
Band4_10MHz_16QAM_LCH_1715MHz_RB_1_0_NTNV



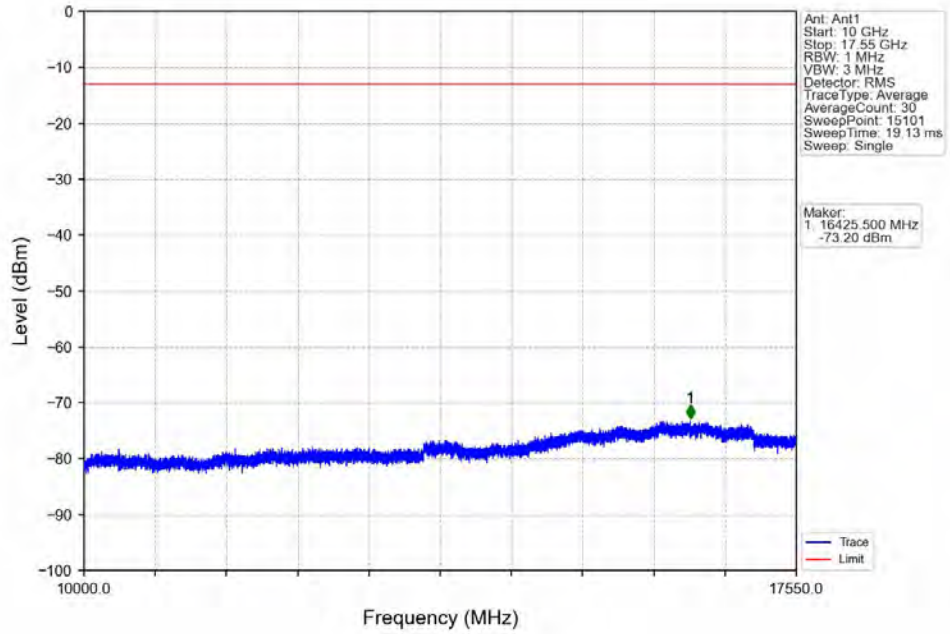
Band4_10MHz_16QAM_LCH_1715MHz_RB_1_0_NTNV



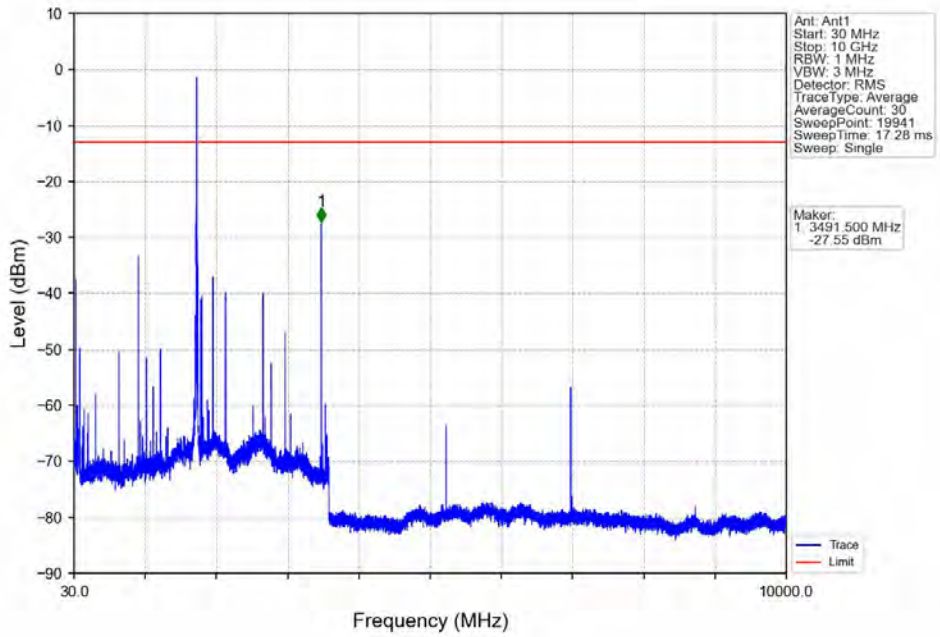

Band4_10MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



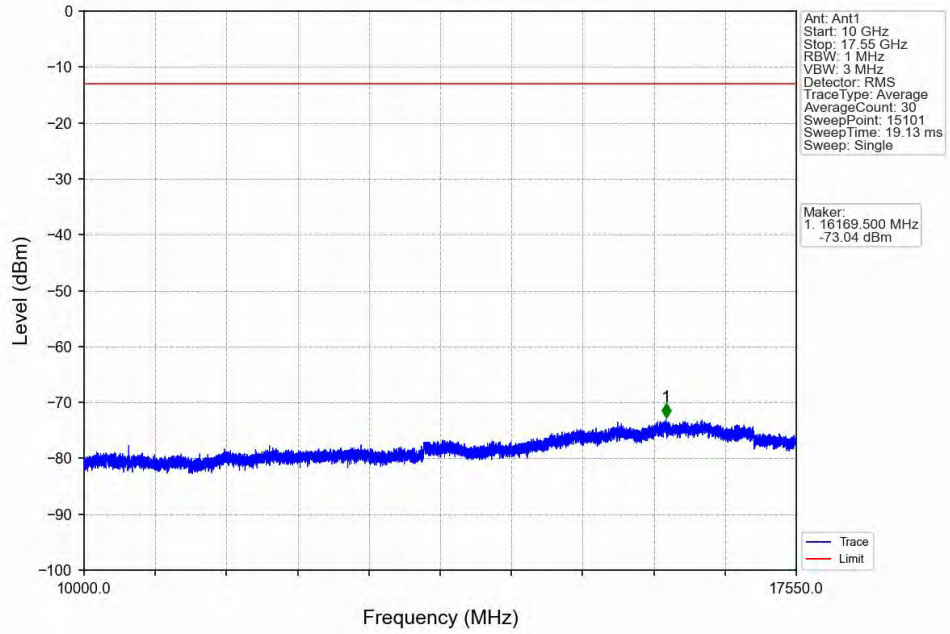
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



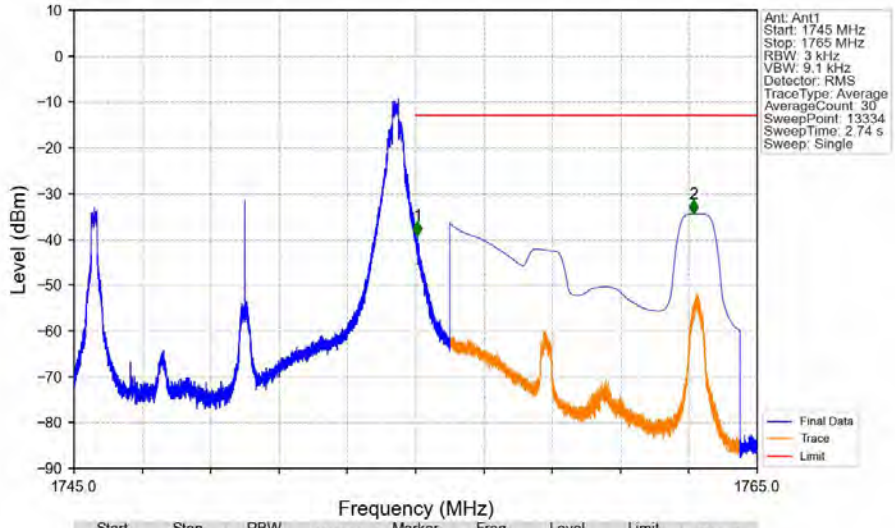

Band4_10MHz_16QAM_HCH_1750MHz_RB_1_0_NTNV



Band4_10MHz_16QAM_HCH_1750MHz_RB_1_0_NTNV




Band4_10MHz_16QAM_HCH_1750MHz_RB_1_49_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1745 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.056 | -39.21 | -13 | Pass |
| 1756 | 1765 | 1 | CHP | 2 | 1763.135 | -34.52 | -13 | Pass |

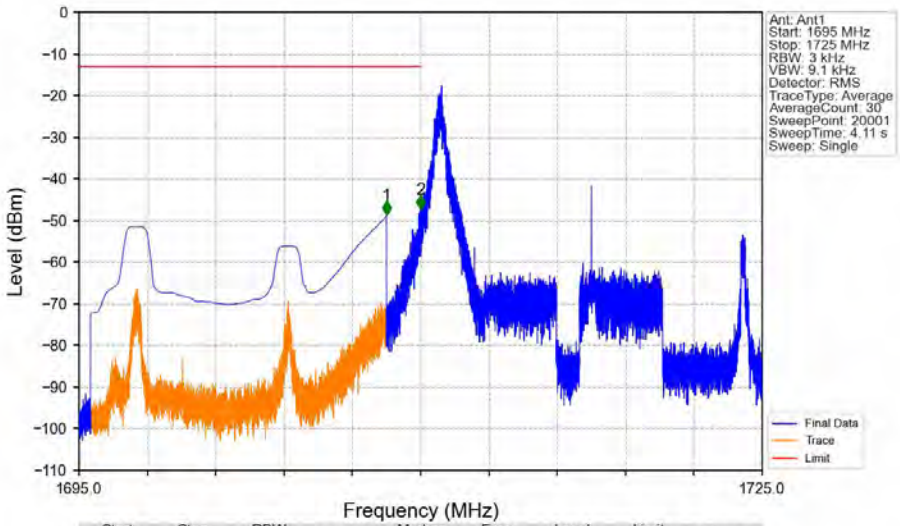
## 6.5 B4_15MHz

### 6.5.1 Test Result

| Band: 4 / Bandwidth: 15MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1717.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1747.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 74 | Refer To Test Graph | | Pass |
| | | 75 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1717.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1747.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 74 | Refer To Test Graph | | Pass |

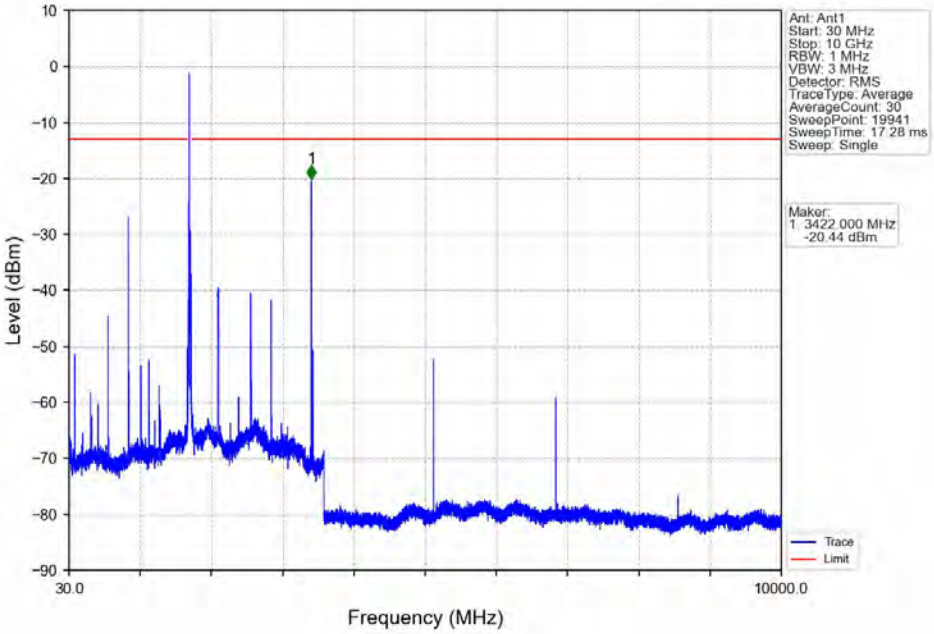
## 6.5.2 Test Graph

Band4_15MHz_QPSK_LCH_1717.5MHz_RB_1_0_NTNV

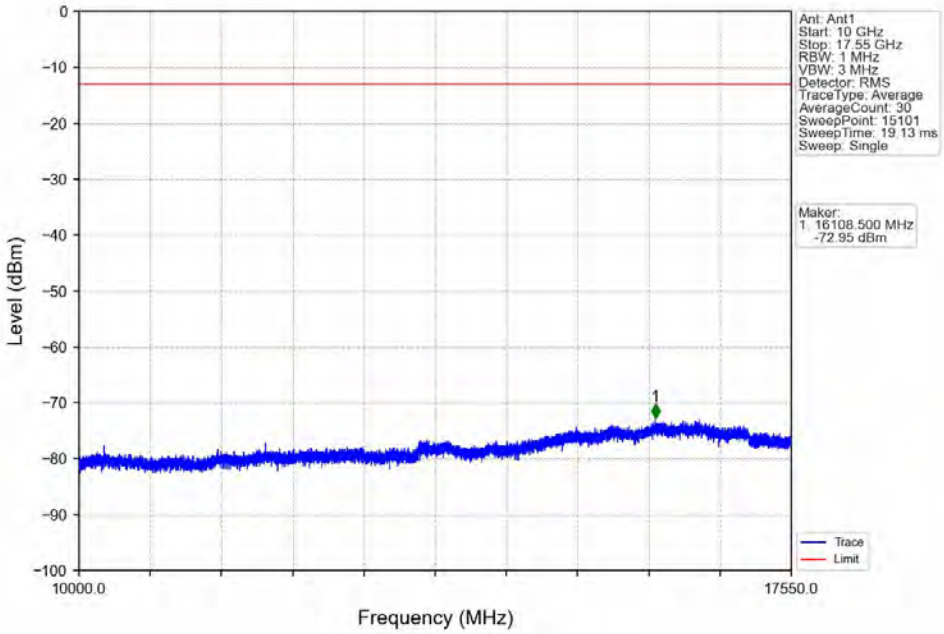



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1695 | 1709 | 1 | CHP | 1 | 1708.498 | -48.77 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.998 | -47.28 | -13 | Pass |
| 1710 | 1725 | 0.003 | / | / | / | / | / | / |

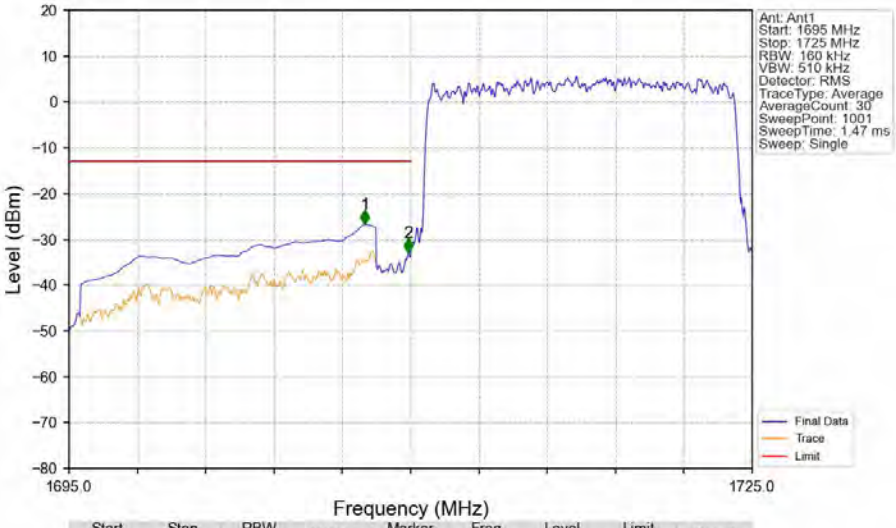
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_1_0_NTNV



Band4_15MHz_QPSK_LCH_1717.5MHz_RB_1_0_NTNV

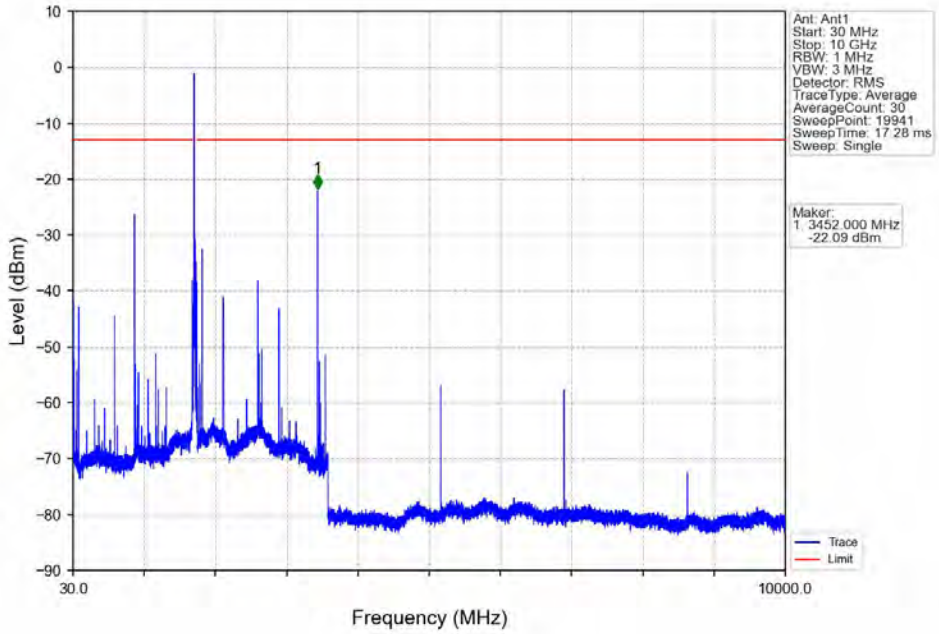



Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV

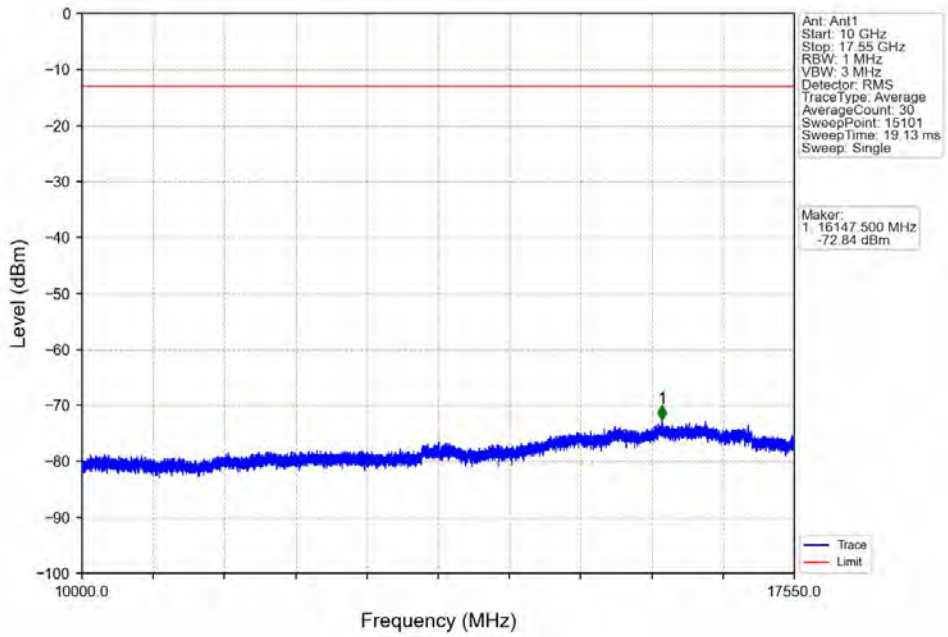



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1695 | 1709 | 1 | CHP | 1 | 1707.990 | -26.80 | -13 | Pass |
| 1709 | 1710 | 0.16 | / | 2 | 1709.910 | -32.86 | -13 | Pass |
| 1710 | 1725 | 0.16 | / | / | / | / | / | / |

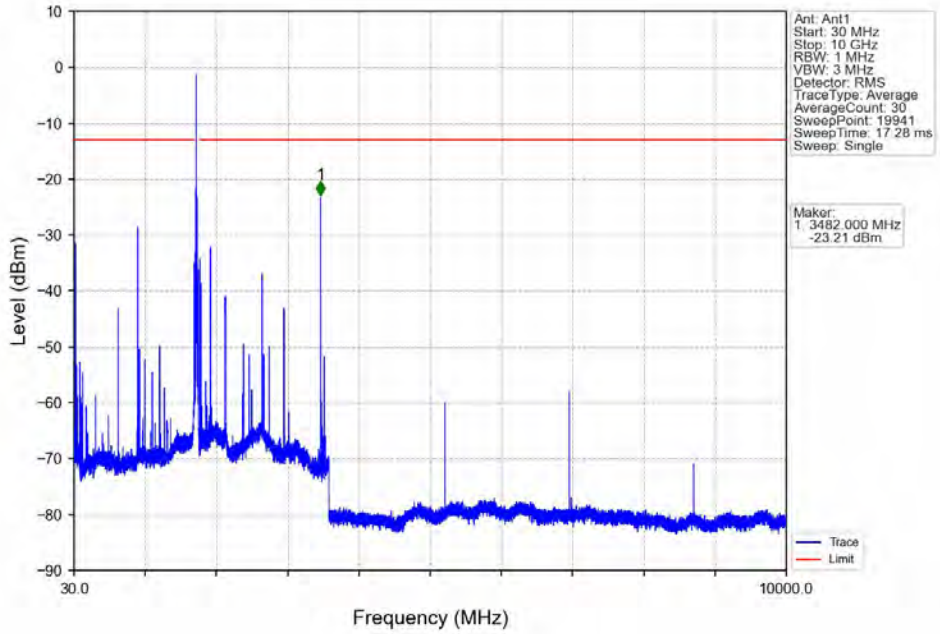
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



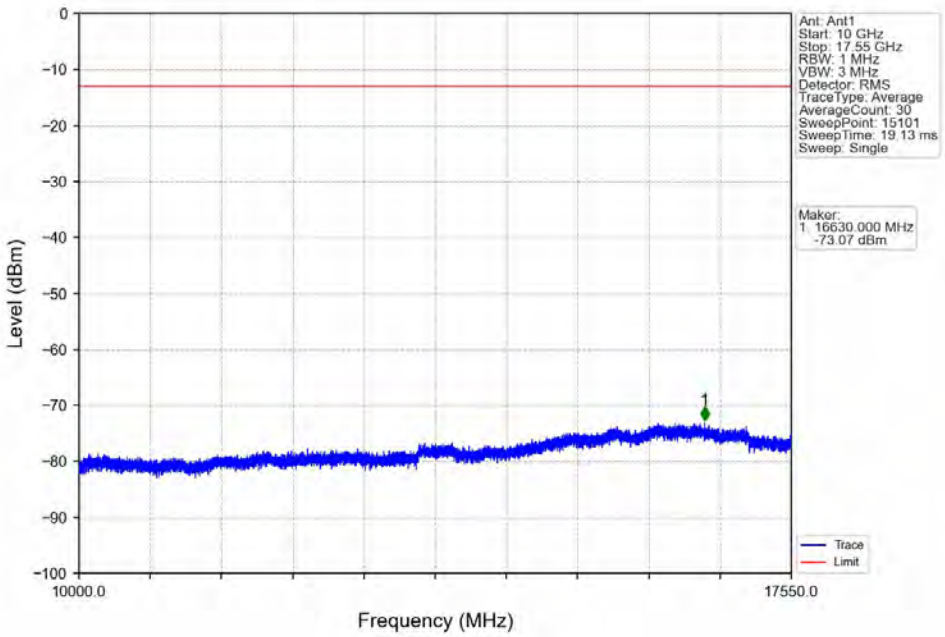

Band4_15MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



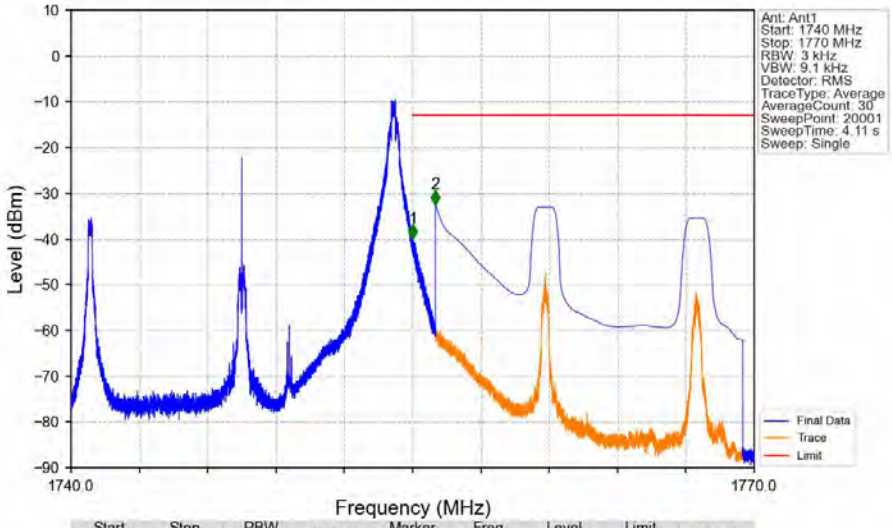
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_0_NTNV




Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_0_NTNV

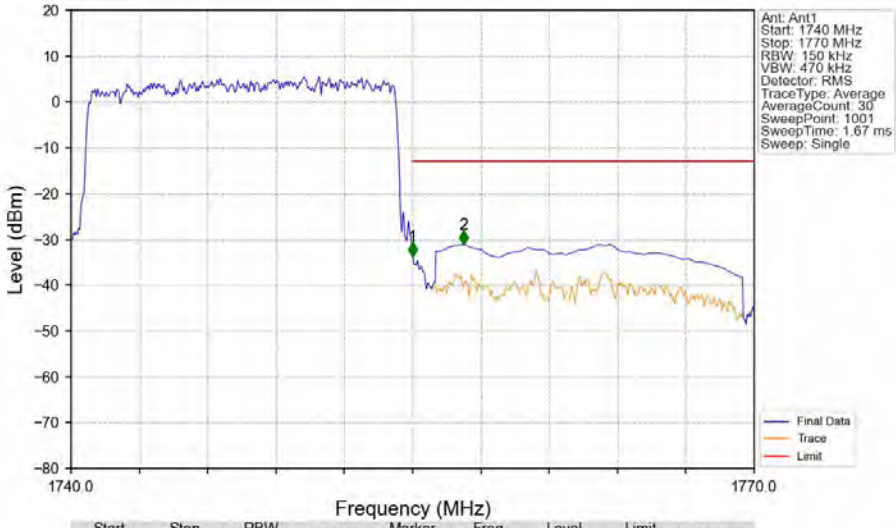


Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_74_NTNV



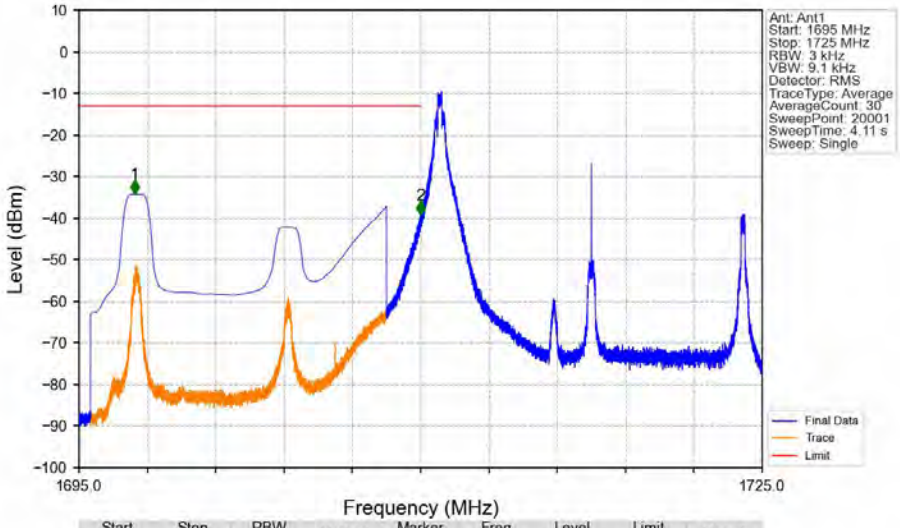

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1740 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.012 | -39.98 | -13 | Pass |
| 1756 | 1770 | 1 | CHP | 2 | 1756.001 | -32.44 | -13 | Pass |

Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



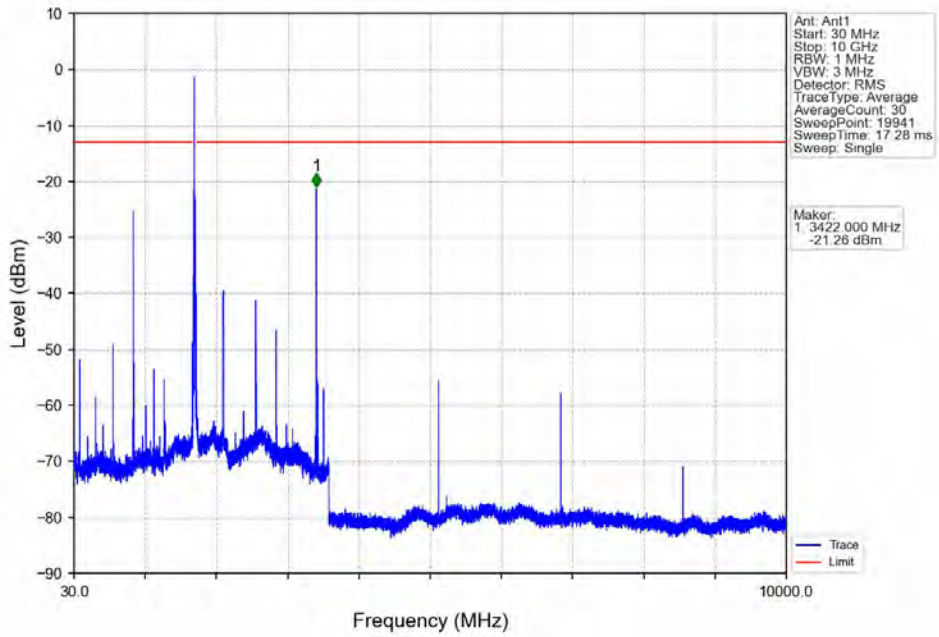

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1740 | 1755 | 0.15 | / | / | / | / | / | / |
| 1755 | 1756 | 0.15 | / | 1 | 1755.000 | -33.75 | -13 | Pass |
| 1756 | 1770 | 1 | CHP | 2 | 1757.250 | -31.11 | -13 | Pass |

Band4_15MHz_16QAM_LCH_1717.5MHz_RB_1_0_NTNV

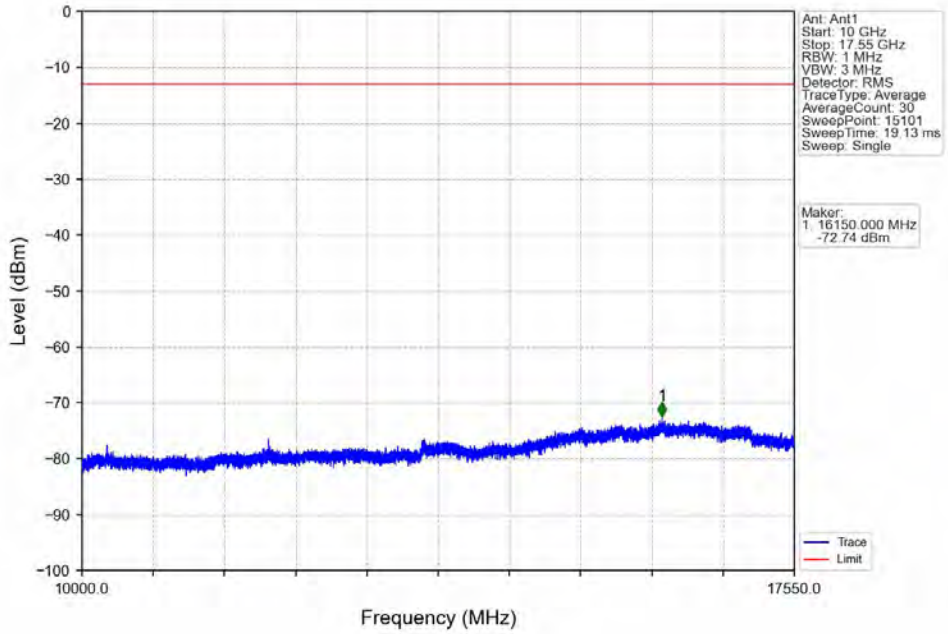



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1695 | 1709 | 1 | CHP | 1 | 1697.438 | -34.26 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1710.000 | -39.31 | -13 | Pass |
| 1710 | 1725 | 0.003 | / | / | / | / | / | / |

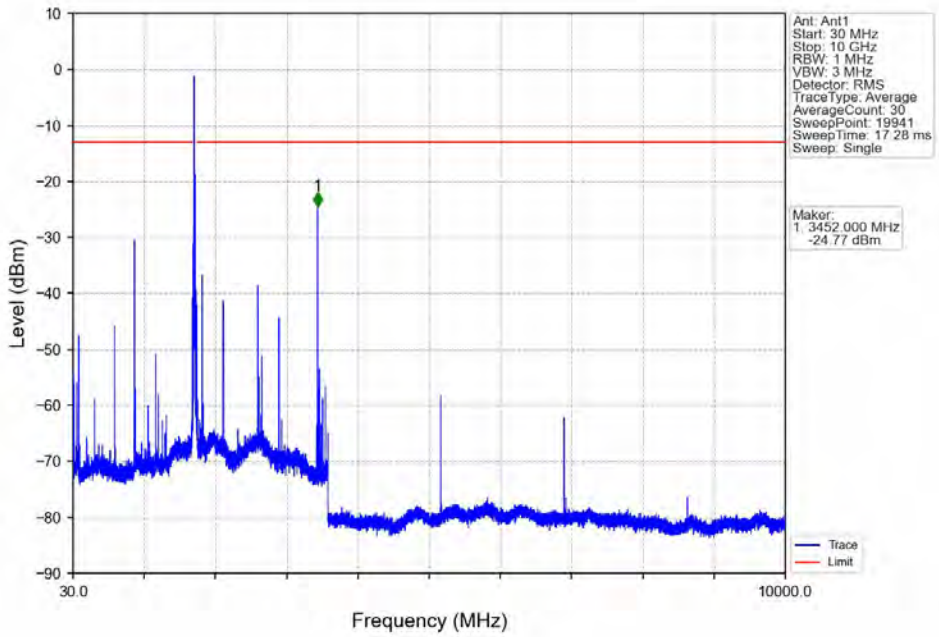
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_1_0_NTNV



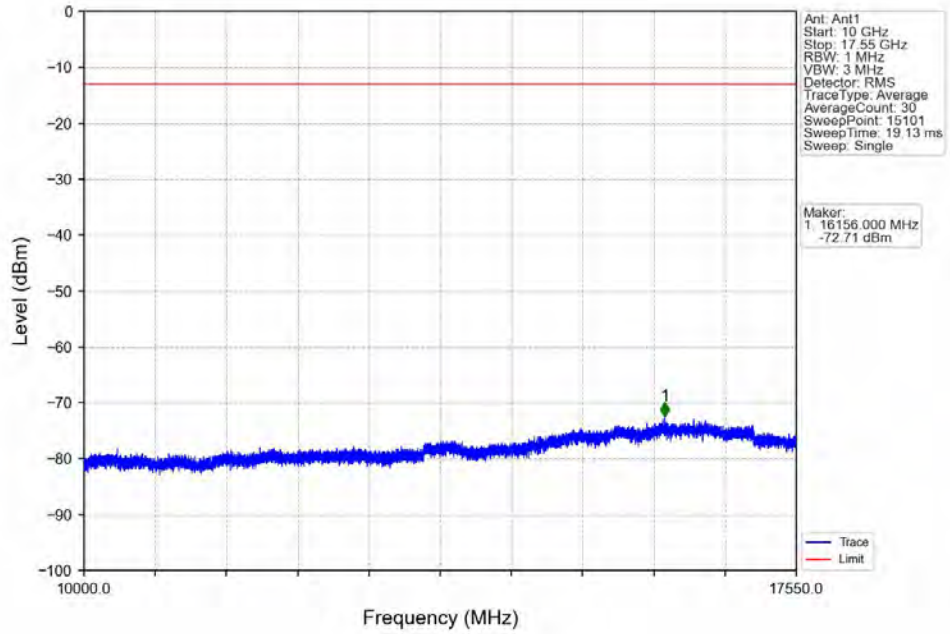
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_1_0_NTNV



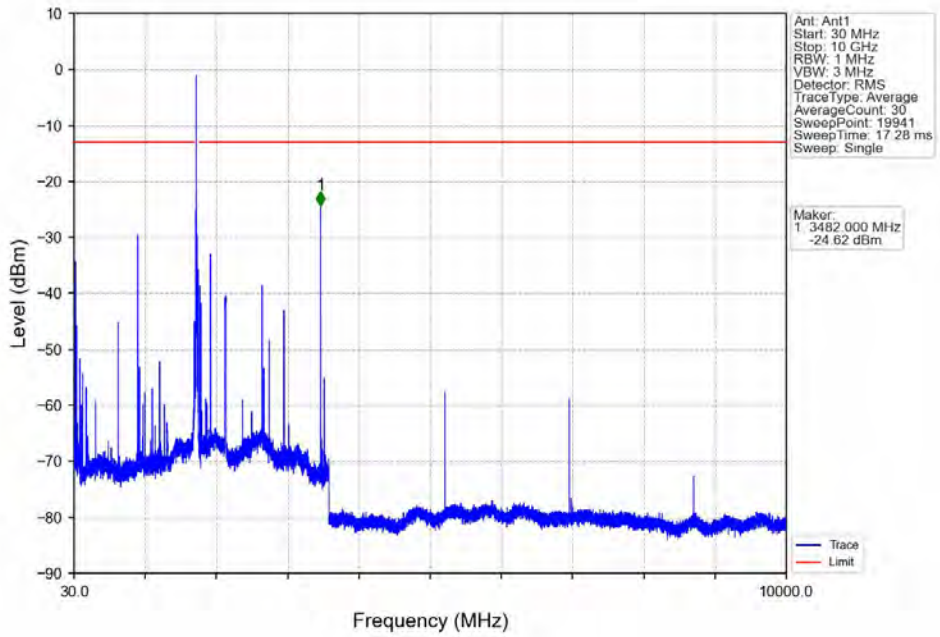

Band4_15MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



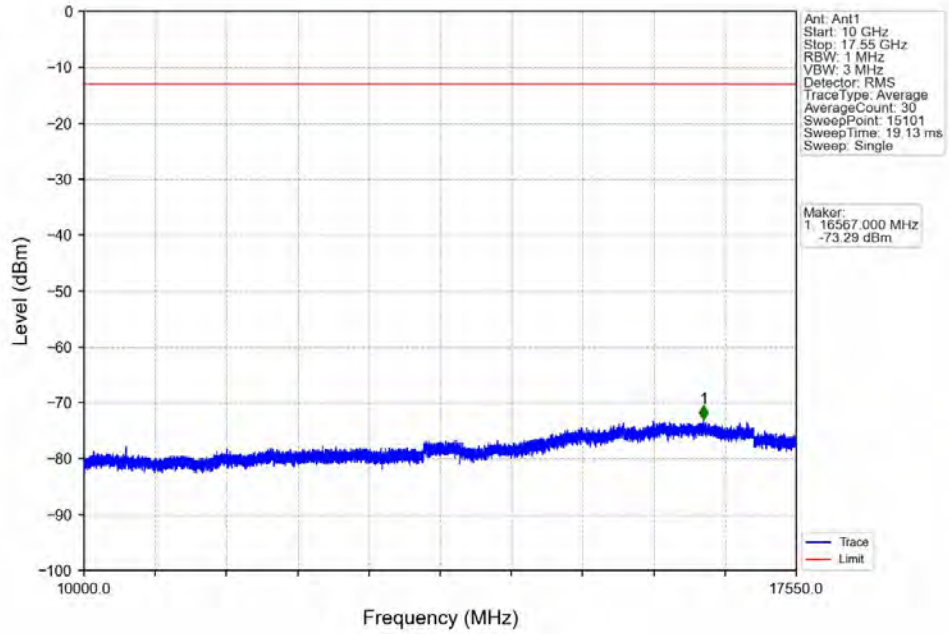
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



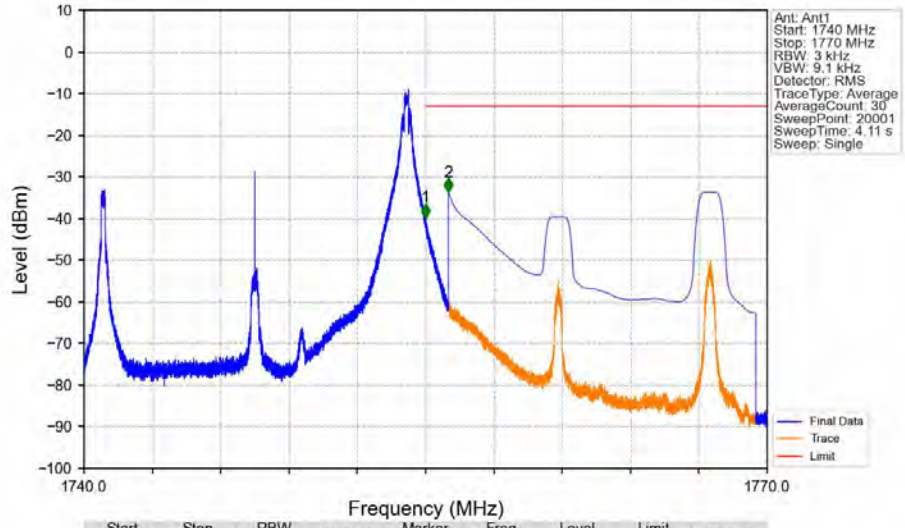

Band4_15MHz_16QAM_HCH_1747.5MHz_RB_1_0_NTNV



Band4_15MHz_16QAM_HCH_1747.5MHz_RB_1_0_NTNV




Band4_15MHz_16QAM_HCH_1747.5MHz_RB_1_74_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1740 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.002 | -39.76 | -13 | Pass |
| 1756 | 1770 | 1 | CHP | 2 | 1756.001 | -33.67 | -13 | Pass |

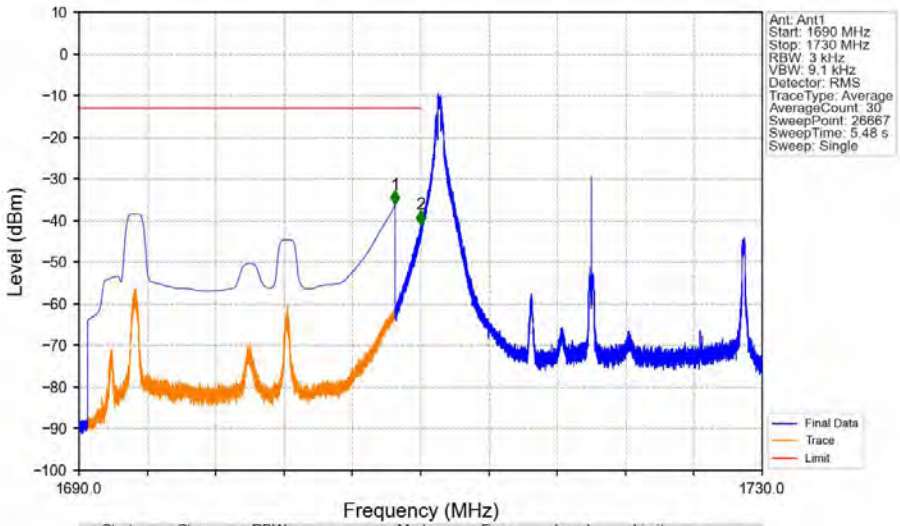
## 6.6 B4_20MHz

### 6.6.1 Test Result

| Band: 4 / Bandwidth: 20MHz / NTNV | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Frequency (MHz) | RB Allocation | | Spurious Emission | | Verdict |
| | | Size | Offset | Result | Limit | |
| QPSK | 1720 | 1 | 0 | Refer To Test Graph | | Pass |
| | | 100 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1745 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 99 | Refer To Test Graph | | Pass |
| | | 100 | 0 | Refer To Test Graph | | Pass |
| 16QAM | 1720 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1732.5 | 1 | 0 | Refer To Test Graph | | Pass |
| | 1745 | 1 | 0 | Refer To Test Graph | | Pass |
| | | | 99 | Refer To Test Graph | | Pass |

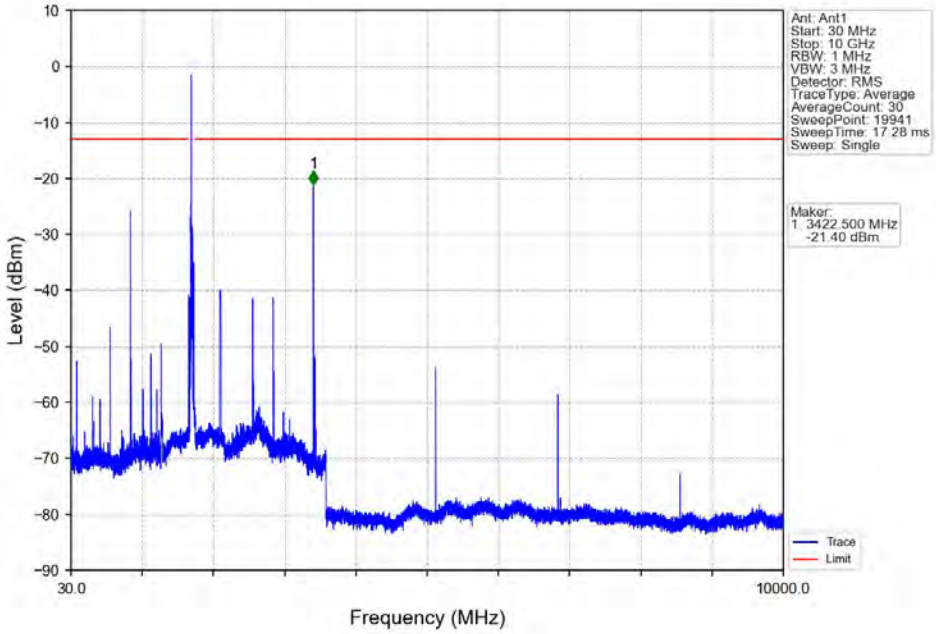
## 6.6.2 Test Graph

Band4_20MHz_QPSK_LCH_1720MHz_RB_1_0_NTNV

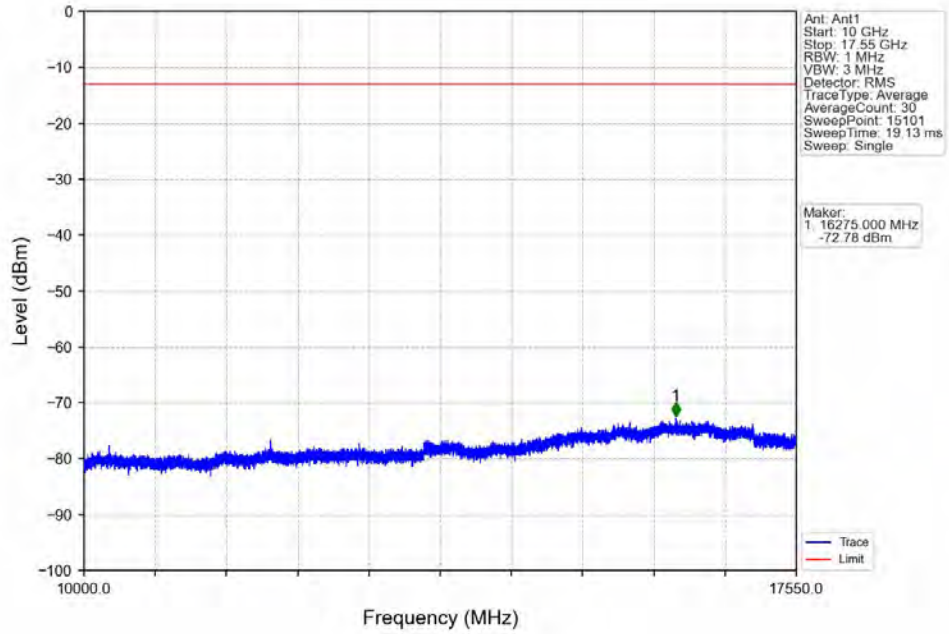



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1690 | 1709 | 1 | CHP | 1 | 1708.500 | -36.19 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1709.998 | -40.94 | -13 | Pass |
| 1710 | 1730 | 0.003 | / | / | / | / | / | / |

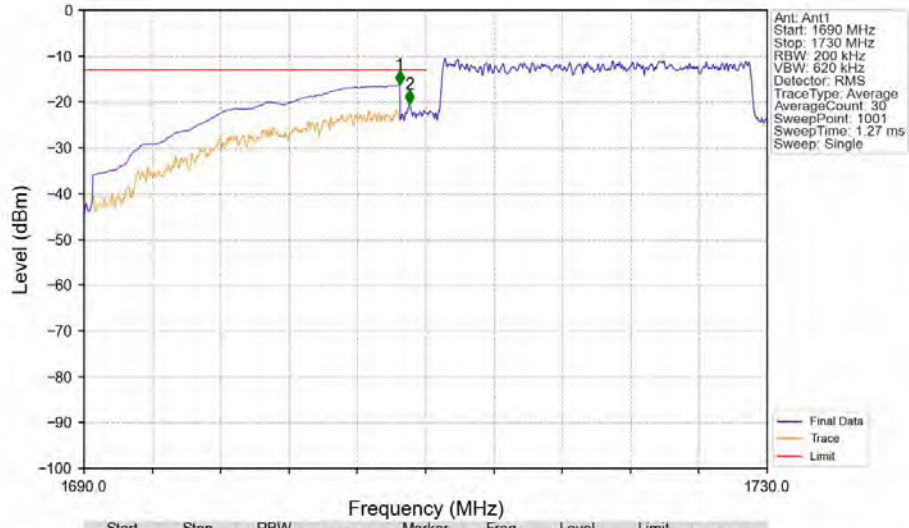
Band4_20MHz_QPSK_LCH_1720MHz_RB_1_0_NTNV



Band4_20MHz_QPSK_LCH_1720MHz_RB_1_0_NTNV

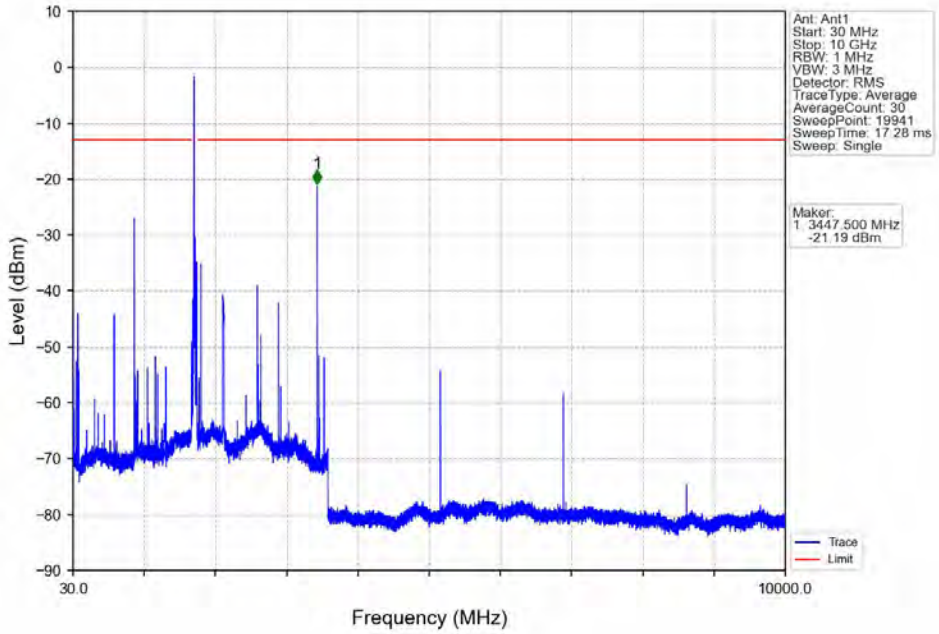



Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV

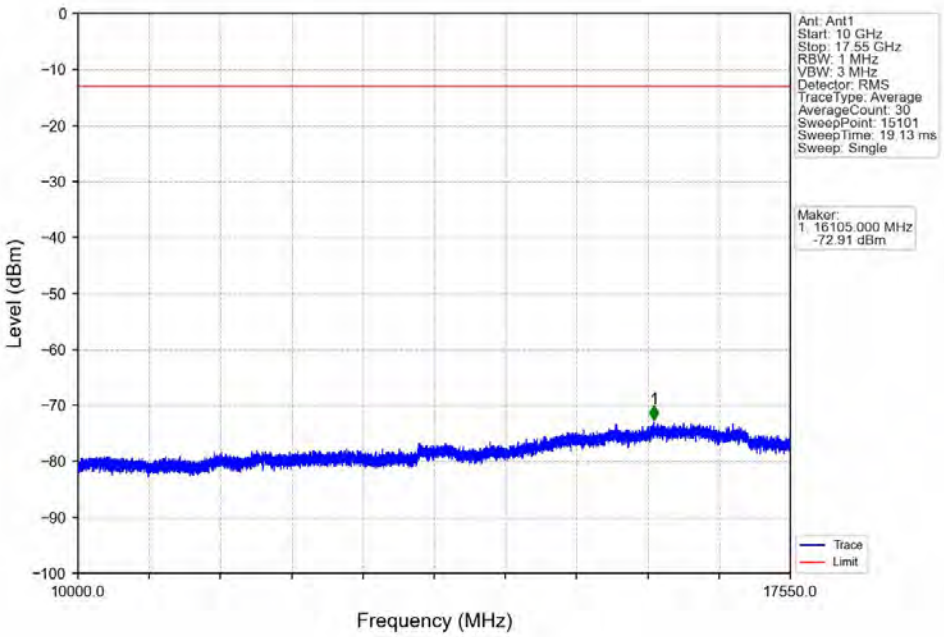



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1690 | 1709 | 1 | CHP | 1 | 1708.480 | -16.22 | -13 | Pass |
| 1709 | 1710 | 0.2 | / | 2 | 1709.040 | -20.53 | -13 | Pass |
| 1710 | 1730 | 0.2 | / | / | / | / | / | / |

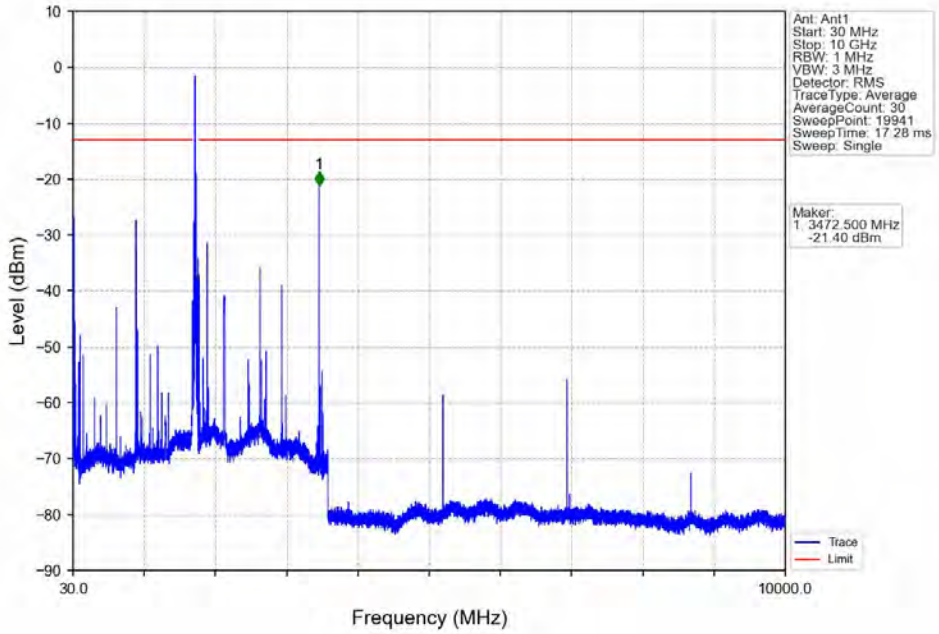
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



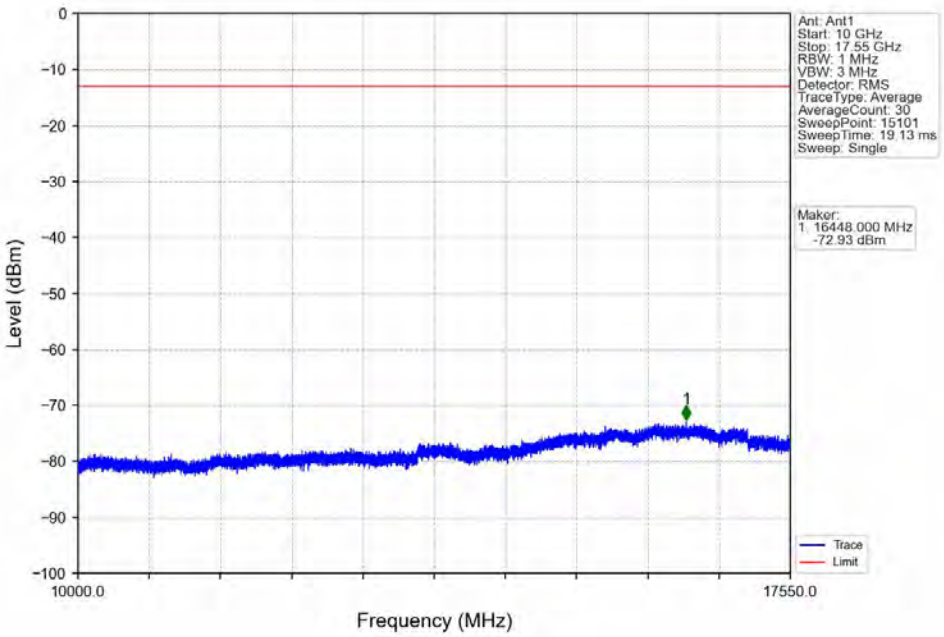

Band4_20MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



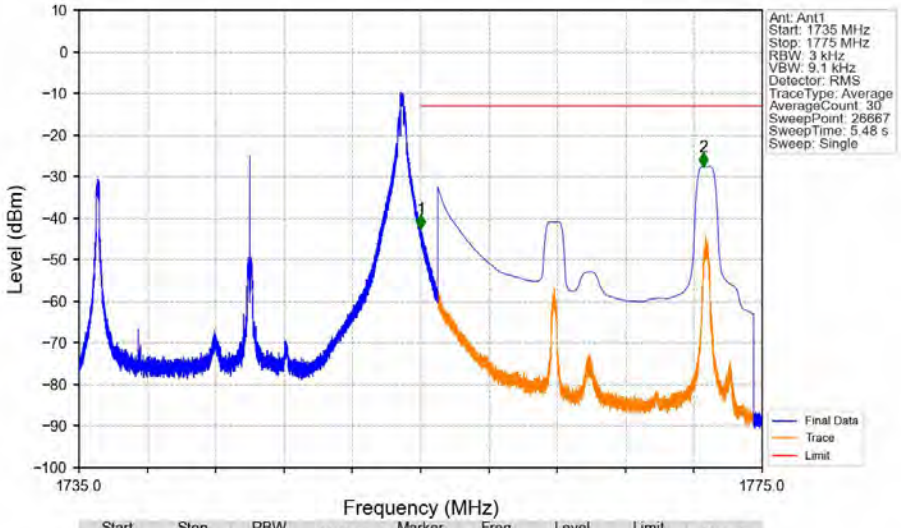
Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV




Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV

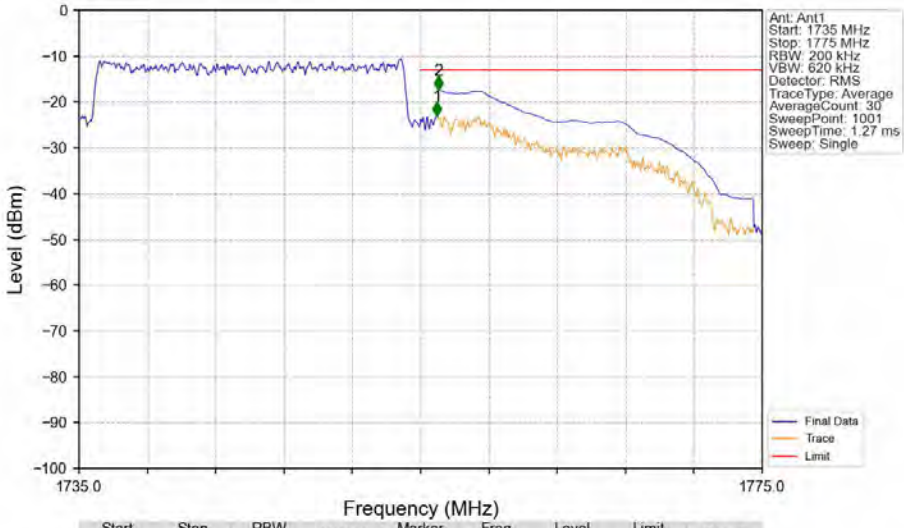


Band4_20MHz_QPSK_HCH_1745MHz_RB_1_99_NTNV



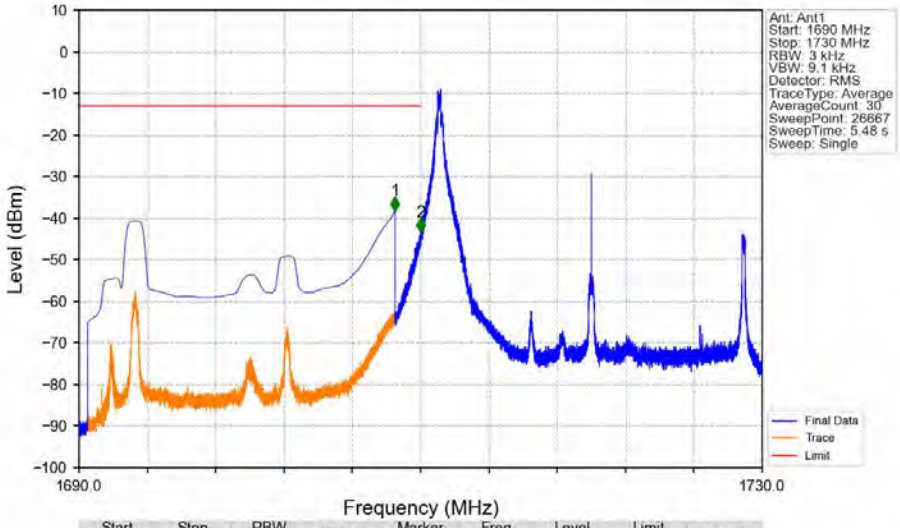

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1735 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.021 | -42.66 | -13 | Pass |
| 1756 | 1775 | 1 | CHP | 2 | 1771.562 | -27.59 | -13 | Pass |

Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



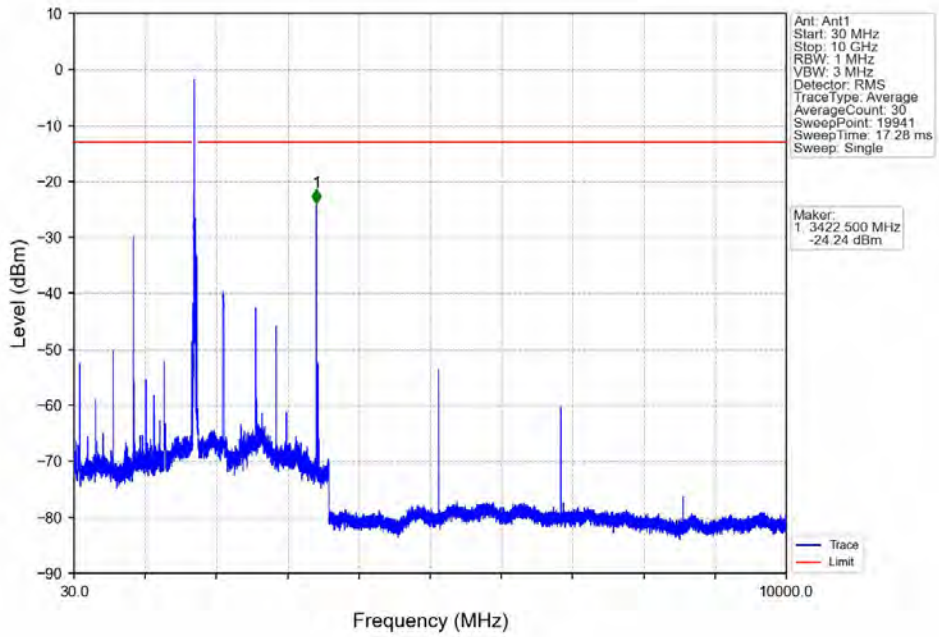

| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1735 | 1755 | 0.2 | / | / | / | / | / | / |
| 1755 | 1756 | 0.2 | / | 1 | 1755.960 | -23.14 | -13 | Pass |
| 1756 | 1775 | 1 | CHP | 2 | 1756.040 | -17.41 | -13 | Pass |

Band4_20MHz_16QAM_LCH_1720MHz_RB_1_0_NTNV

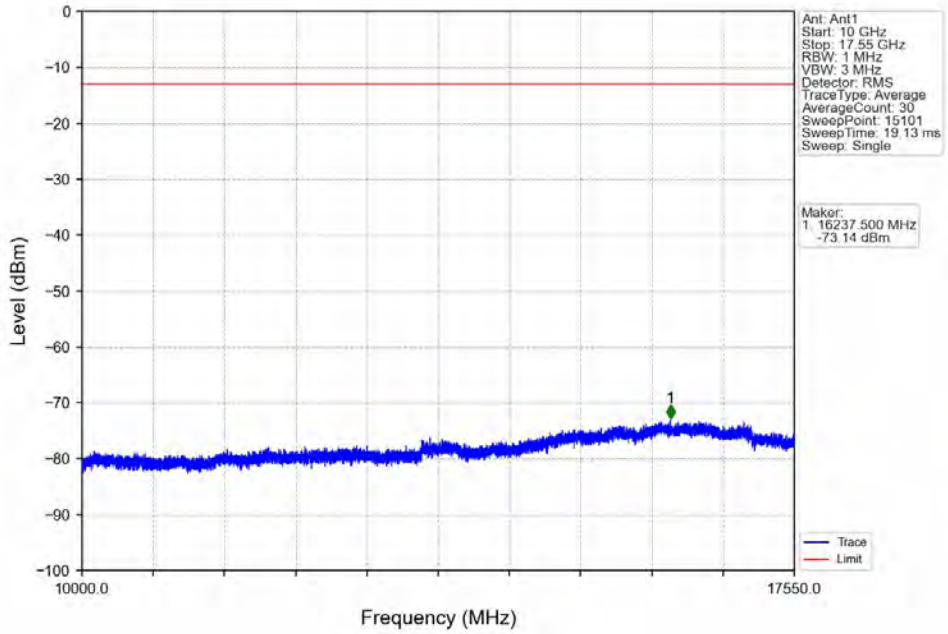



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1690 | 1709 | 1 | CHP | 1 | 1708.500 | -38.24 | -13 | Pass |
| 1709 | 1710 | 0.003 | / | 2 | 1710.000 | -43.41 | -13 | Pass |
| 1710 | 1730 | 0.003 | / | / | / | / | / | / |

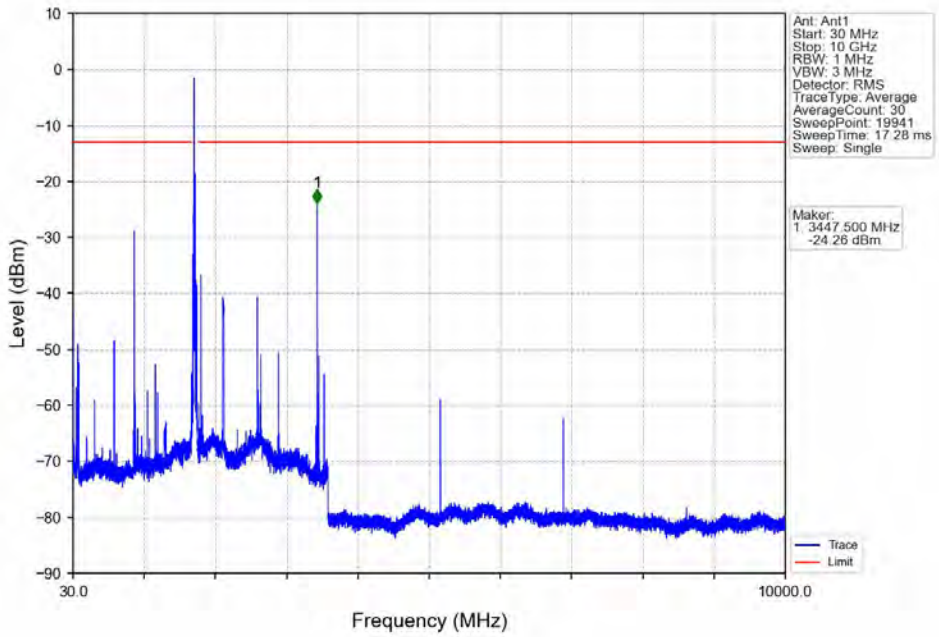
Band4_20MHz_16QAM_LCH_1720MHz_RB_1_0_NTNV



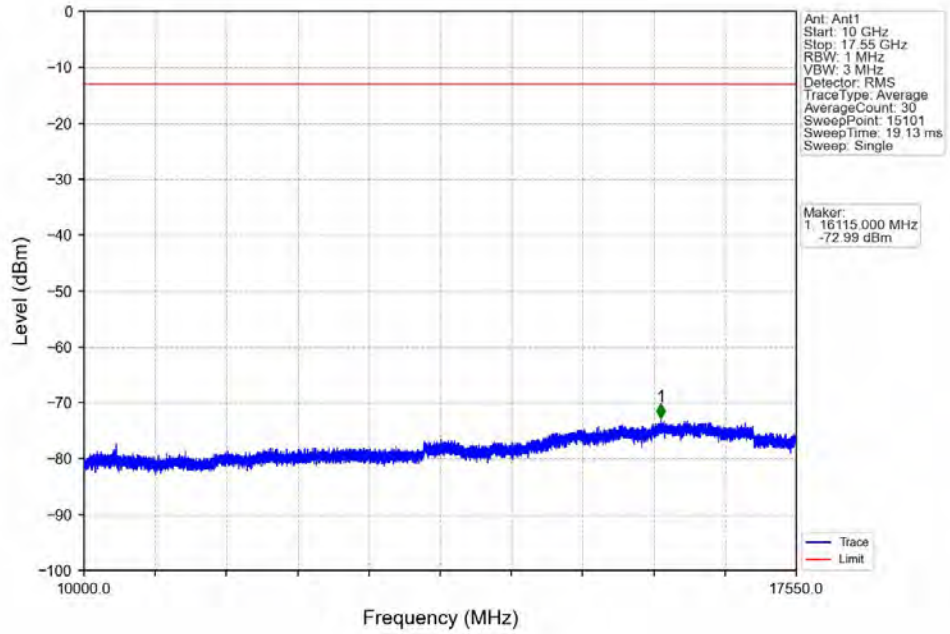
Band4_20MHz_16QAM_LCH_1720MHz_RB_1_0_NTNV



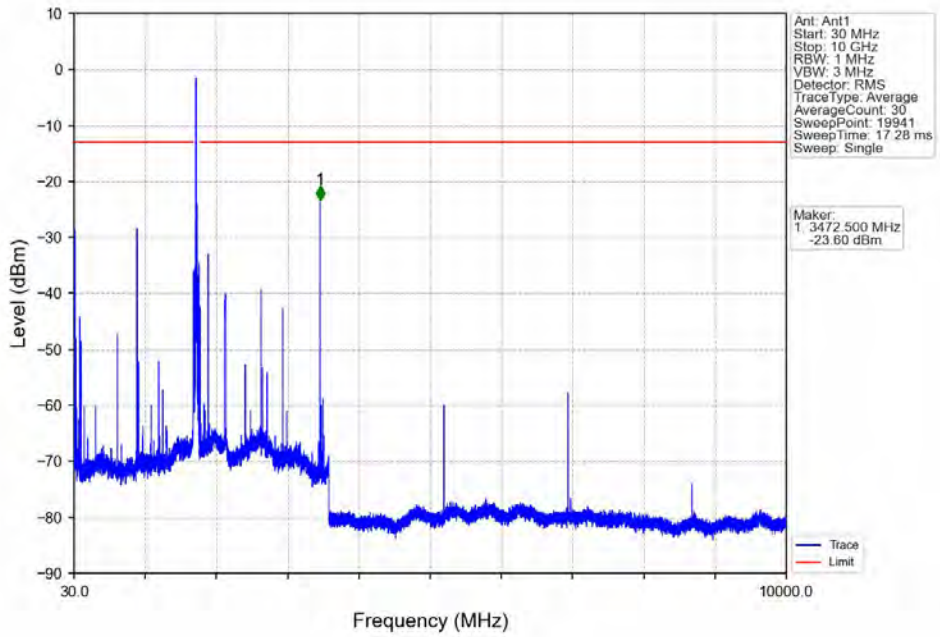

Band4_20MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



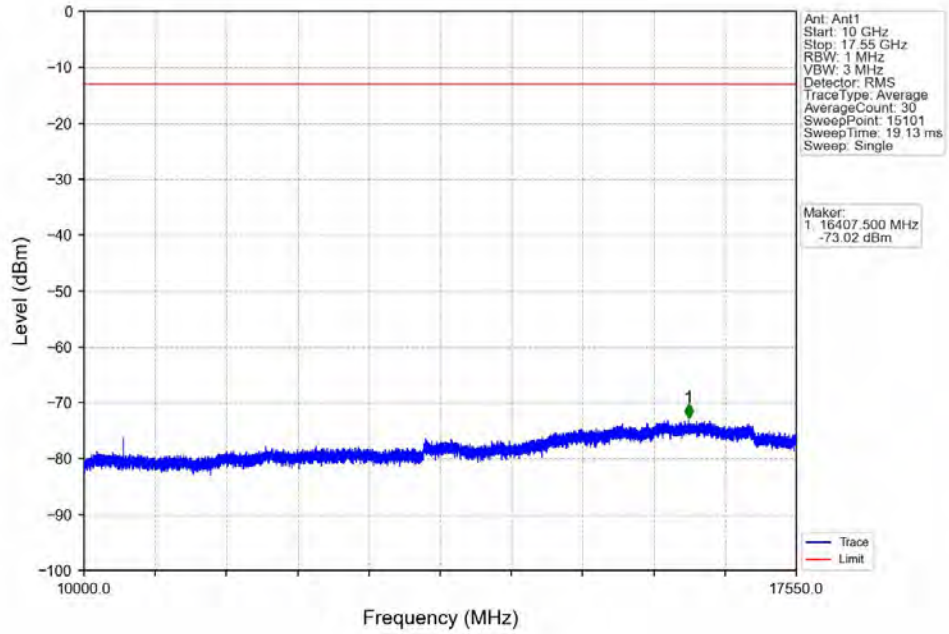
Band4_20MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



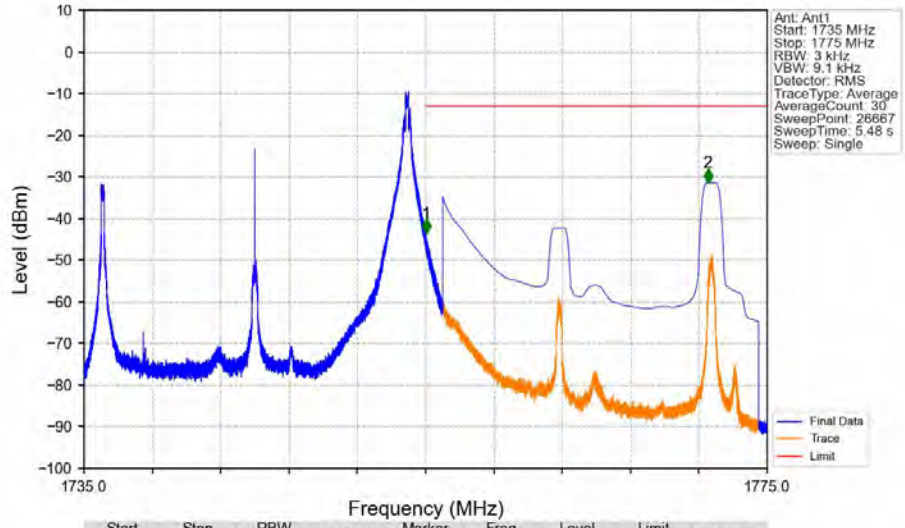

Band4_20MHz_16QAM_HCH_1745MHz_RB_1_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_1_0_NTNV




Band4_20MHz_16QAM_HCH_1745MHz_RB_1_99_NTNV




| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| 1735 | 1755 | 0.003 | / | / | / | / | / | / |
| 1755 | 1756 | 0.003 | / | 1 | 1755.032 | -43.61 | -13 | Pass |
| 1756 | 1775 | 1 | CHP | 2 | 1771.527 | -31.44 | -13 | Pass |

# 7. Form731

## 7.1 Form731_Power

### 7.1.1 Test Result

| Band | BW | Lower Freq | High Freq | MAX Power (W) | Value | Hz/ppm | Emission Designator | Rule Parts | MAX Power (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 1.4 | 1710.7 | 1754.3 | 0.1905 | 0.0027 | ppm | 1M11G7D | 27L | 22.80 |
| 4 | 1.4 | 1710.7 | 1754.3 | 0.1535 | 0.0024 | ppm | 1M12W7D | 27L | 21.86 |
| 4 | 3 | 1711.5 | 1753.5 | 0.1811 | 0.0012 | ppm | 2M75G7D | 27L | 22.58 |
| 4 | 3 | 1711.5 | 1753.5 | 0.1592 | 0.0013 | ppm | 2M74W7D | 27L | 22.02 |
| 4 | 5 | 1712.5 | 1752.5 | 0.1807 | 0.0018 | ppm | 4M55G7D | 27L | 22.57 |
| 4 | 5 | 1712.5 | 1752.5 | 0.1390 | 0.0019 | ppm | 4M56W7D | 27L | 21.43 |
| 4 | 10 | 1715 | 1750 | 0.1770 | 0.0020 | ppm | 9M05G7D | 27L | 22.48 |
| 4 | 10 | 1715 | 1750 | 0.1472 | 0.0025 | ppm | 5M12W7D | 27L | 21.68 |
| 4 | 15 | 1717.5 | 1747.5 | 0.1754 | 0.0006 | ppm | 13M5G7D | 27L | 22.44 |
| 4 | 15 | 1717.5 | 1747.5 | 0.1419 | 0.0004 | ppm | 5M64W7D | 27L | 21.52 |
| 4 | 20 | 1720 | 1745 | 0.1754 | 0.0021 | ppm | 18M0G7D | 27L | 22.44 |
| 4 | 20 | 1720 | 1745 | 0.1656 | 0.0025 | ppm | 5M80W7D | 27L | 22.19 |

## 7.2 Form731_EIRP

### 7.2.1 Test Result

| Band | BW | Lower Freq | High Freq | MAX Power (W) | Value | Hz/ppm | Emission Designator | Rule Parts | MAX Power (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 1.4 | 1710.7 | 1754.3 | 0.0759 | 0.0027 | ppm | 1M11G7D | 27L | 18.80 |
| 4 | 1.4 | 1710.7 | 1754.3 | 0.0611 | 0.0024 | ppm | 1M12W7D | 27L | 17.86 |
| 4 | 3 | 1711.5 | 1753.5 | 0.0721 | 0.0012 | ppm | 2M75G7D | 27L | 18.58 |
| 4 | 3 | 1711.5 | 1753.5 | 0.0634 | 0.0013 | ppm | 2M74W7D | 27L | 18.02 |
| 4 | 5 | 1712.5 | 1752.5 | 0.0719 | 0.0018 | ppm | 4M55G7D | 27L | 18.57 |
| 4 | 5 | 1712.5 | 1752.5 | 0.0553 | 0.0019 | ppm | 4M56W7D | 27L | 17.43 |
| 4 | 10 | 1715 | 1750 | 0.0705 | 0.0020 | ppm | 9M05G7D | 27L | 18.48 |
| 4 | 10 | 1715 | 1750 | 0.0586 | 0.0025 | ppm | 5M12W7D | 27L | 17.68 |
| 4 | 15 | 1717.5 | 1747.5 | 0.0698 | 0.0006 | ppm | 13M5G7D | 27L | 18.44 |
| 4 | 15 | 1717.5 | 1747.5 | 0.0565 | 0.0004 | ppm | 5M64W7D | 27L | 17.52 |
| 4 | 20 | 1720 | 1745 | 0.0698 | 0.0021 | ppm | 18M0G7D | 27L | 18.44 |
| 4 | 20 | 1720 | 1745 | 0.0659 | 0.0025 | ppm | 5M80W7D | 27L | 18.19 |